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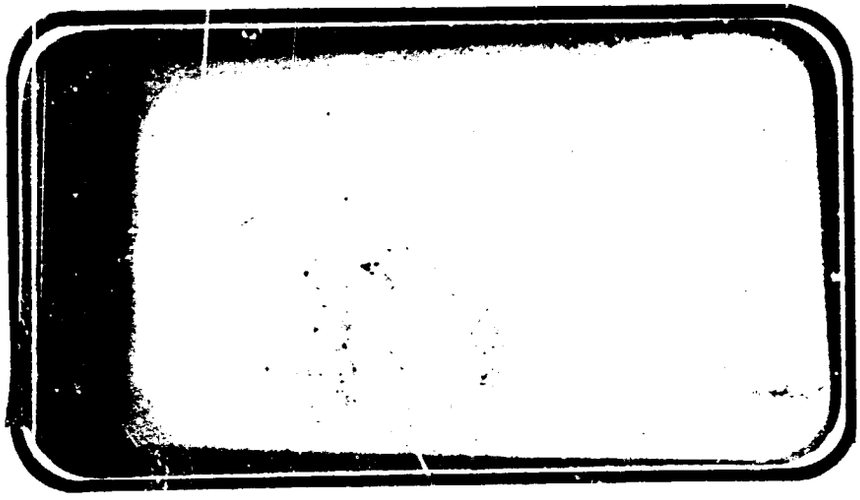

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EXPERIMENTAL INVESTIGATIONS OF AN 0.0405 SCALE SPACE SHUTTLE CONFIGURATION 3 ORBITER TO DETERMINE SUBSONIC STABILITY CHARACTERISTICS (OA21A/OA21B)

By

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Prepared under NASA Contract Number NAS9-13247

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New Orleans, La. 70189

for

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Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL SPECIFICS:

Test Number:	NAAL 705
NASA Series No.:	OA21A/OA21B
Test Date:	21 May - 25 June, 1973
Model:	43-0

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EXPERIMENTAL INVESTIGATIONS OF AN 0.0405 SCALE SPACE SHUTTLE CONFIGURATION 3 ORBITER TO DETERMINE SUBSONIC STABILITY CHARACTERISTICS (0A21A/0A21B)

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ABSTRACT

Experimental aerodynamic investigations were conducted in the NAAL Low Speed Wind Tunnel from May 21 through June 4 and from June 18 through June 25, 1973 on a 0.0405 scale -139B model Space Shuttle Vehicle (SSV) orbiter. The purpose of the test was to investigate the longitudinal and lateral-directional subsonic aerodynamic characteristics of the Rockwell International proposed PRR Space Shuttle Orbiter. Emphasis was placed on component buildup effects, elevon, rudder, body flaps, rudder flare effectiveness, and canard and speed brake development.

Angles of attack from -4° to 24° and angles of sideslip of -10° to 10° were tested. Static pressures were recorded on the base.

The aerodynamic force balance results are presented in plotted and tabular form.

DMS-DR-2053 will be published in two volumes. Data for NASA Series No. 0A21A will be published as volume I and 0A21B as volume II.

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COEFFICIENTS SCHEDULE:

A) CL, L/DF, CAF, CAB, CN, XCP/L, CLM vs. ALPHA

CL vs. CDF, CL vs. CLM

B) DCL/DE, DCLMDE vs. ALPHA

C) CYN, CBL, CY vs. BETA

D) DCYNDB, DCBLDB, DCY/DB vs. ALPHA

E) CYN, CBL, CY vs. ALPHA

F) DCYNDA, DCBLDA, DCY/DA vs. ALPHA

G) DCYNDR, DCBLDR, DCY/DR vs. ALPHA

NOMENCLATURE
General

SYMBOL	SADSAC SYMBOL	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
ℓ_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream
BC	balance chamber
T	weight tare
1,2,---5	condition at station No 1,2,---5, respectively
B	body

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	SADSAC SYMBOL	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)
ADDITIONS TO NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
C_{y_β}	DCY/DB	side force coefficient derivative with respect to beta. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; per degree.
C_{n_β}	DCYNDB	yawing moment coefficient derivative with respect to beta. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; body axis system; per degree.
C_{l_β}	DCBLDB	rolling moment coefficient derivative with respect to beta. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the side slip angle of the runs; body axis system; per degree.
$C_{y_{\delta a}}$	DCY/DA	side force coefficient derivative with respect to total aileron deflection. Algebraic difference of the side force coefficients of two runs divided by deflection angle of the runs; per degree.
$C_{n_{\delta a}}$	DCYNDA	yawing moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.
$C_{l_{\delta a}}$	DCBLDA	rolling moment coefficient derivative with respect to total aileron deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the total aileron deflection angle of the runs; body axis system; per degree.
$C_{y_{\delta r}}$	DCY/DR	side force coefficient derivative with respect to rudder deflection. Algebraic difference of the side force coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{n_{\delta r}}$	DCYNDR	yawing moment coefficient derivative with respect to rudder deflection. Algebraic difference of the yawing moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{l_{\delta r}}$	DCBLDR	rolling moment coefficient derivative with respect to rudder deflection. Algebraic difference of the rolling moment coefficient of two runs divided by the algebraic difference of the rudder deflection angle of the runs; body axis system; per degree.
$C_{m_{\delta e}}$	DCLMDE	pitching moment coefficient derivative with respect to elevon deflection. Algebraic difference of the pitching moment coefficient of two runs divided by the algebraic difference of the elevon deflection angles of the runs; per degree.
$C_{L_{\delta e}}$	DCL/DE	lift coefficient derivative with respect to elevon deflection. Algebraic difference of the lift force coefficients of two runs divided by the algebraic difference of the elevon deflection angles of the runs; per degree.
XCP/ℓ	XCP/L	longitudinal center of pressure location; fraction of body length.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_a	AILRON	aileron, total aileron deflection angle, degrees, (left aileron - right aileron)/2.
δ_c	CANARD	canard, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{sb}	SPDBRK	speedbrake, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{rf} = (\delta_{rL} + \delta_{rR})/2$, positive deflection; degrees.

NOMENCLATURE (CONCLUDED)

SYMBOL	SADSAC SYMBOL	DEFINITION
δ_{BF}	BDFLAP	body flap, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_r	RUDDER	rudder, surface deflection angle, positive deflection trailing edge to the left; degrees.
$\Delta\delta_e$	DELELE	algebraic difference of elevon deflection angle between two runs; degree.
$\delta_{e_{max}}$	MAXELE	maximum elevon deflection angle between two runs; degree.
$\Delta\delta_a$	DELAIL	algebraic difference of aileron deflection angle between two runs; degree.
$\delta_{a_{max}}$	MAXAIL	maximum aileron deflection angle between two runs; degrees.
$\Delta\delta_r$	DELRUD	algebraic difference of rudder deflection angle betweel two runs; degree.
$\delta_{r_{max}}$	MAXRUD	maximum rudder deflection angle between two runs; degrees.
$\Delta\beta$	DBETA	algebraic difference of the angle of sideslip between two runs; degrees.
δ_v	VTLINC	vertical tail inclination angle, positive when trailing edge left; degrees.

CONFIGURATIONS INVESTIGATED

The model for this test was an 0.0405 scale - 139B representation of the Rockwell International PRR Space Shuttle Orbiter. The basic model is of the bended wing-body design utilizing a double delta wing and constructed around an aluminum balance block with a 4.250 inch diameter balance cavity. All large model components, i.e., body mold lines, wings etc., were constructed either of aluminum and/or wood and attached directly to the model balance block. The other components, i.e., speed brakes, canards, etc., were constructed of aluminum, wood, and/or template steel and attached to the fuselage.

The available model configuration variables were; vertical tail; vertical tail rudder and/or rudder flare capability; full span split elevons with unswept hingeline; removable canopy, body flap, orbital manuevering system, and wings; and various speed brake and canard combinations.

The balance support system utilized for this test was the balance block sleeved for fit of the 2.5 inch MK IX internal balance and used with the NAAL sting support system.

The various model components tested are listed below. Table II delineates the configurations these components were tested in while Table III lists the pertinent dimensions of each component.

COMPONENT SYMBOL	DESCRIPTION
B_{17}	-139 Baseline fuselage
B_{19}	-139B Baseline fuselage
B_{21}	Same as B_{19} except with an up cambered nose
C_7	-139B Baseline canopy
E_{23}	-139B Baseline elevon used on wing W_{107}
F_5	-139 Baseline body flap
F_6	Same as F_5 but with an extended chord on top surface
H_2 thru H_7, H_{14}, and H_{15}	Body mounted canards

CONFIGURATIONS INVESTIGATED (Concluded)

COMPONENT SYMBOL	DESCRIPTION
H_8 thru H_{11}	Glove mounted canards
H_{12}, H_{13}, H_{16} thru H_{18} and H_{24}	Glove apex mounted canards
H_{23}, H_{25}	Nose mounted canards
M_4	-139B Baseline orbital manuevering system (OMS)
R_6	-139B Baseline rudder used on vertical tail V_7
V_7	-139B Baseline all movable centerline vertical tail
W_{107}	-139B Baseline double delta wing, S_w = 2690 ft^2
W_{112}	Same as W_{107} except upper surface is straight line modified with clay
Z_2	Top-wing brake
Z_3	Main-gear door brake
Z_4	OMS-mounted brake
Z_5	Body-flare mounted brake
X_9	Grit strips

TEST FACILITY DESCRIPTION

The Rockwell International (NAAL) Low Speed Wind Tunnel is a continuous flow, closed circuit facility with a 7.75 x 11 foot test section which is vented to atmospheric pressure. It is capable of speeds up to 200 miles per hour. Power is supplied by a 1250 horsepower nacelle-mounted synchronous motor driving a 19 foot diameter, 7-bladed laminated birch propeller. Air-speed is controlled by varying the degree of coupling between the motor and propeller by means of an electromagnetic clutch. A damping screen and honeycomb section in the settling chamber upstream of the contraction cone (7.53 to 1) minimizes turbulence in the test section.

Tests may be conducted using a variety of model mounting systems. These include single and double struts, sting support, reflection plane, cable suspension, and two-dimensional walls. Sting and strut support systems include both pitch and yaw positioning capability.

The dynamic pressure in the test section is calibrated in terms of the difference in static pressure as measured at the 27-foot and the 12-foot sections of the contraction cone upstream of the test section. These two static pressures are sensed by piezometer rings in the walls of the tunnel, and are connected to a pair of bellows in the "Q-balance", where the difference between the pressures is balanced against an adjustable weight, which is set for the desired tunnel velocity. Any unbalance is detected and indicated by a meter on the control console as a feedback to the tunnel operator, who manually controls the tunnel velocity. The meter signal, along with the output of pressure transducers connected

to the 12-foot and 27-foot piezometer rings, is also recorded by the data system described below.

The planar balance, which is located beneath the floor of the test section, is used for measuring aerodynamic forces on the model. It consists of four flexure-mounted linkage systems which isolate the forces acting on a model into three mutually-perpendicular forces, each having a moment acting about its axis. The small movement of the model due to each force and moment is mechanically amplified by a system of levers, detected optically, and counteracted by an electrodynamic coil and magnet assembly. The coil current required to balance each aerodynamic force provides the output signals. The entire planar balance, and therefore the force axis system, rotates in yaw with the model, resulting in measurements in the stability-axis system.

The electrical output of all instrumentation is recorded on magnetic tape by the ASTRODATA Data Acquisition System. This system can accept up to 50 channels of analog voltage input data, which is amplified and filtered as required. The 50 channels can be scanned at either of two rates; approximately 67 or 134 complete scans per second. Each signal is converted to a 14-bit digital word (including sign) and recorded on 7-track IBM-compatible tape. The tape is physically carried to the computer room on the mezzanine of the wind tunnel building, where the data are reduced to the desired form by a Data General Nova 820 computer.

DATA REDUCTION

The aerodynamic force and moment data presented were measured by the Task Corporation 2.5 inch MK IX strain gage balance. The data have been corrected for model base and balance chamber pressure effects, model blockage influence on tunnel dynamic pressure, wall interference effects, sting and balance deflections, and model weight tare.

The corrections to axial force were accomplished in the following manner:

$$C_{A_F} = C_A - C_{A_{BC}} - C_{A_b} - C_{A_T}$$

where:

$$C_{A_{BC}} = - \left(\frac{P_{BC} - P_s}{q}\right) \left(\frac{A_{BC}}{S}\right)$$

and:

$$C_{A_b} = - \left(\frac{P_b - P_s}{q}\right) \left(\frac{A_b}{S}\right) \quad P_b = 1/5 \, (P_{b1} + \ldots + P_{b5})$$

C_{A_T} = Model axial force weight tare

The following reference dimensions were used for reducing the aerodynamic data to coefficient form:

Symbol	Definition	Value Full Scale	Value Model Scale
A_b	Area of base, ft^2 (with OMS pods)	-	0.570
	(without OMS pods)		0.428
A_{BC}	Area of balance cavity, ft^2	-	0.0985
S	Area of wing, ft^2	2690.00	4.412
XMRP	Center of gravity, fus. sta., in.	1076.47	43.597
	Center of gravity, aft of nose, in.	838.47	33.958
ZMRP	Center of gravity, waterplane, in.	400	16.200
L_B	Length orbiter body, in.	1290.30	52.257
$\bar{c}$(LREF)	Wing MAC, in.	474.81	19.230
$\bar{b}$(BREF)	Wing span, in.	936.68	37.935

TEST : OA21 - NAAL 705	TABLE I	DATE :5/21-6/4/73

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.165	1.15×10^6/ft	40 lbs/ft.^{2}	70 → 110°F
0.260	1.85×10^6/ft	100 lbs/ft.^{2}	70 → 110°F

BALANCE UTILIZED: TASK 2.5 INCH DIA. MK IX

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	3000 lbs.	± .25%	
SF	1500 lbs.	± .25%	
AF	200 lbs.	± .25%	
PM			
RM	4000 in. lbs.	± .25%	
YM			

COMMENTS:

TABLE II

TEST : OH 21H (NAHL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260
RDH001	$B_{17}C_7M_4F_7W_{107}E_{23}V_7R_6X_9$	A	0	0°	0°	0°	0°	-18°	55°	—	1		1
02		0	B										2
03		10											3
04		15											4
05		20											5
06		A	0					0					6
07								10					7
08								15					8
09								-18°	0				9
10		0	B										10
11		10											11
12		15											12
13		20											13
14		0					-7.5°						14
15		10											15
16		15											16
17		20											17
18		0					-15°						18

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

δ_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OR 21A (NAAL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260
RDP019	$B_{17}C_7M_4F_5W_{107}E_{25}V_7R_6X_9$	10	B	0	0	0	-15	-18	0	T	1		19
20		15											20
21		20											21
22		A	0				0		25				22
23		0	B										23
24		10											24
25		15											25
26		20											26
27		0					-7.5						27
28		10											28
29		15											29
30		20											30
31		0					-15						31
32		10											32
33		15											33
34		20											34
35		A	0				0		85				35
36		0	B										36

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENT:

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: QA21A (NHAL705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SP}	$\dot{\delta}_H$	NO. OF RUNS	MACH NUMBERS 0.165	0.260	TEST RUN NUMBERS
KDP037	$B_{17}C_7M_4F_5W_{10}F_{23}V_7R_6X_9$	10	B	0	0	0	0	-18	85	T	1		37	
38		15											38	
39		20											39	
40		0					-7.5						40	
41		10											41	
42		15											42	
43		20											43	
44		0					-15						44	
45		10											45	
46		15											46	
47		20	↓						↑				47	
48		A	0				0		55				48	
49		0	B										47	
50		10											50	
51		15											51	
52		20											52	
53		0					-7.5			↓			53	
54	↓	10	↓	↓	↓	↓	↓	↓	↓	0	↓		54	

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP,LL	CAB	MACH	ALPHA	

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. (CONTINUED)

TEST: OA21A (NAAL705) | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SE}	ϕ_H	NO. OF RUNS	MACH 0.165	MACH 0.260	TEST RUN NUMBERS
RDP055	$B_1C_1M_4F_5W_{107}E_{23}V_7R_2X_9$	15	B	0	0	0	-1.5	-1.5	-1.5	—	1		55	
56		20											56	
57		0					-1.5						57	
58		10											58	
59		15											59	
60		20	↓	↓			↓						60	
61		A	0	5			0						61	
62				10									62	
63				15									63	
64				-5									64	
65				-15									65	
66				-20									66	
67				-40	↓								67	
68				10	5								68	
69				5	10								67	
70				0	15								70	
71				-10	15								71	
72	$B_1C_1K_2M_4F_5W_{107}E_{23}V_7R_2X_9$	↓	↓	0	0	↓	↓	↓	↓	↓	↓		72	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL CDF CLM CN CAF CYN CBL CY XCP/L CAB MACH ALPHA

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICENTS

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: ORZIN (NAAL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H				NO. OF RUNS	MACH NUMBERS 0.165	0.260		
RDP073	$B_{17}C_7M_3M_4F_5W_{107}E_{23}V_7R_6X_9$	0	B	0	0	0	0	-18	55	0				1		73		
74		10														74		
75		15														75		
76		20														76		
77	$B_{17}C_7$ $F_5W_{107}E_{23}V_7R_6X_9$	A	0							—						77		
78		0														78		
79		10														79		
80		15														80		
81		20														81		
82	$F_5W_{107}E_{23}$ X_9	A	0			—	—		—							82		
83		0	B													83		
84		10														84		
85		15														85		
86		20														86		
87	M_4	A	0													87		
88		0	B													88		
89		10														89		
90		15														90		

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

α_R = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OA21A (NFAL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260
RDP 091	$B_{17}C_7$ $M_4F_5W_{107}E_{23}$ X_9	20	B	0	0	—	—	-18	—	—	1		91
092	$B_{17}C_7$ F_5 X_9	A	0										92
093		0	B										93
094		10											94
095		15											95
096		20											96
097	$B_{17}C_7$ X_9	A	0					—					97
098		0	B					—					98
099		10											99
100		15											100
101		20											101
102	B_{17} X_9	A	0										102
103		0	B										103
104		10											104
105		15											105
106		20											106
107	$B_{17}C_7H_2M_4F_5W_{107}E_{23}V_7R_6X_9$	A	0	0	0	0	0	-18	55	0			107
108										10			108

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OH21A (NAHL7[illegible])

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_H	δ_V	δ_{BL}	δ_{BF}	δ_{SB}	δ_H				NO. OF RUNS	MACH NUMBERS 0.165	0.260		
RDP109	$B_{17}C_7H_2M_4F_3W_{10}F_{23}V_7R_6X_7$	A	0	0	0	0	0	-18	55	20				1		109		
110										-10						110		
111										-20						111		
112	H_3									0						112		
113										10						113		
114										20						114		
115										-10						115		
116										-20						116		
117	H_4									0						117		
118										10						118		
119										20						119		
120										-10						120		
121										-20						121		
122	H_5									0						122		
123										10						123		
124										20						124		
125										-10						125		
126										-20						126		

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OH21A (NAAL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260
[illegible]	$B_{17}C_7H_2M_4F_5W_{107}E_{25}V_7R_6X_9$	A	0	5	0	0	0	-18	[illegible]	0	1		127
28										10			128
29										20			129
30				10						20			130
31										10			131
32										[illegible]			132
33	H_3												133
34										10			134
35										20			135
36	H_4									0			136
37										10			137
38										20			138
39	H_5									0			139
40										10			140
41	H_5									20			141
42	H_{12}			0						0		142	
43	H_{13}											143	
44	H_8											144	

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OAZIA (NAAL705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260
[illegible] 145	$B_{17}C_7H_9M_4F_5W_{107}E_{23}V_7R_6Y_1$	H	0	0	0	0	0	[illegible]	[illegible]	0	1	145	
46	H_{16}											146	
47	H_{18}											147	
48	H_{17}											148	
49										—		149	
50	H_{17}			10						0		150	
51	H_{18}											151	
52	H_9											152	
53	H_8											153	
54	H_{13}											154	
55	H_{12}											155	
56	H_{16}											156	
57	H_{10}											157	
58	H_{11}											158	
59	H_{11}			0								159	
60	H_{10}											160	
61	H_{16}											161	
62	H_7											162	

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OH21A (NAAL 705)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_H	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.265
RDP163	$B_{17}C_7H_{15}M_4F_5W_{17}E_{23}V_7R_6X_7$	A	0	0	0	0	0	-15	[illegible]	0	1	163	
64	H_{19}											164	
65	H_6											165	
66	H_{14}											166	
67	H_{19}			10								167	
68	H_{14}											165	
69	H_6											169	
70	H_{15}											170	
71	H_7											171	
72				0					0	—			172
73				5									173
74				-5									174

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST : OA21B(NAAL 705) DATA SET/RUN NUMBER COLLATION SUMMARY DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δE	δA	δV	δR	δBF	δSB	δH	NO. OF RUNS	MACH NUMBERS 0.165	0.260	TEST RUN NUMBERS
RDP175	$B_{19}C_7M_4F_5W_{107}E_{23}V_1R_1$	A	0	0	0	0	0	-18	0	—			175	
76		↓	5										176	
77		0	B										177	
78		5											178	
79		10											179	
80		15											180	
81		20	↓										181	
82		A	0										182	
83			5						↓				183	
84			0						25				184	
85		↓	5										185	
86		0	B										186	
87		5											189	
88		10											188	
89		15											189	
90		20	↓										190	
91	W_{112}	A	0						↓			191		
92		↓	↓	↓	↓	↓	↓	↓	0	↓		192		

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	
										IDVAR (1)	IDVAR (2)	NDV

α OR β SCHEDULES

COEFFICENTS

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

α_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST : OA21B (NAAL 705) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH 0.165	MACH 0.260	TEST RUN NUMBERS
RDP193	$B_{19}C_7M_4F_5W_{107}E_{23}V_7R_6$	A	0	0	0	0	0	-18	55	—			193	
194			5										194	
195			0						85				195	
196			5										196	
197			0	-5					25				197	
198				5									198	
199				10									199	
200				0				—					200	
201	$B_{19}C_7H_3M_4F_5W_{107}E_{23}V_7R_6$							-18		0		201		
202		0	B									202		
203		5										203		
204		10										204		
205		15										205		
206		20										206		
207	H_{31}	A	0									207		
208		0	B									208		
209		5										209		
210		10										210		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL CDF CLM CN CAF CYN CBL CY XCP/L CAB MACH ALPHA

IDVAR (1) IDVAR (2) NDV

COEFFICENTS

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST : OA218 (NAAL 705) | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE :

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{bf}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260	TEST RUN NUMBERS
RDP211	$B_{19}C_7H_9M_4F_5W_{07}E_{23}V_7R_6$	15	B	0	0	0	0	-18	25	0		211		
12	←	20	↓									212		
13	← H_{23}	A	0									213		
14	←	0	B									214		
15		5										215		
16		10										216		
17		15										217		
18		20					↓					218		
19		0					-7.5					219		
20		5										220		
21		10										221		
22		15										222		
23		20					↓					223		
24		0					-15					224		
25		5										225		
26		10										226		
27		15										227		
28		20	↓	↓	↓	↓	↓	↓	↓	↓		228		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL CDF CLM CN CAF CYN CBL CY XCP/L CAB MACH ALPHA

COEFFICENTS

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: OA21B (NAAL 705 | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH NUMBERS 0.165	0.260	TEST RUN NUMBERS
RDP229	$B_{19}C_7H_{23}M_4F_5W_{107}E_{23}V_6R_6$	A	0	-5	0	0	0	-18	25	0		229		
30				5						↓		230		
31				0						—		231		
32	Z_2			↓								232		
33	Z_2Z_3											233		
34	Z_3											234		
35	Z_3Z_5											235		
36	Z_5											236		
37	Z_4											237		
38	Z_4Z_3			↓								238		
39	Z_4			5								239		
40	Z_3											240		
41	Z_2											241		
42	Z_5											242		
43				↓								243		
44	$M_4F_6W_{107}E_{23}V_6R_6$			0				↓				244		
45								0				245		
46		↓	↓	↓	↓	↓	↓	10	↓	↓		246		

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CL	FDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

COEFFICENTS

α_A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β_B = -10, -5, 0, 5, 10

TABLE II. (CONTINUED)

TEST: 0A12B (NAAL705) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_E	δ_A	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_H	NO. OF RUNS	MACH 0.165	MACH 0.260
RDP247	$B_{14}C_7$ $M_4F_6W_{107}E_{23}V_7P_6$	A	0	0	0	0	0	15	25	–		247	
48	$H_9M_4F_5$ X_3							-18	55	0		248	
49									↓	–		249	
50	$H_{25}M_4$	↓	↓						25	0		250	
51		0	B									251	
52		5										252	
53		10										253	
54		15										254	
55		20	↓							↓		255	
56	$B_{21}C_7$ M_4	A	0							–		256	
57		0	B									257	
58		5										258	
59		10										259	
60		15										260	
61		20	↓							↓		261	
62	H_{23}	A	0							0		262	
63		0	B									263	
64		5	↓	↓	↓	↓	↓	↓	↓	↓		264	

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	75 76
CN	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB	MACH	ALPHA	

COEFFICIENTS — IDVAR (1) — IDVAR (2) — NDV

α OR β SCHEDULES: α-A = -4, -2, 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

β = -10, -5, 0, 5, 10

TABLE II. (CONCLUDED)

TEST: 0A21B (NAME ADD)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES							NO. OF RUNS	MACH NUMBERS 0.165	MACH NUMBERS 0.260	TEST RUN NUMBERS
				δ_A	δ_E	δ_V	δ_R	δ_{BF}	δ_{SB}	δ_{EH}				
RDF 265	$B_{21}C_7H_{23}M_4F_5V_{ic7}E_{23}V_7R_6$	10	B	0	0	0	0	-18	55	0	1	265		
66		15										266		
67		20										267		
68	H25	A	0									268		
69		0	B									269		
70		5										270		
71		10										271		
72		15										272		
73		20										273		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE III.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B17

GENERAL DESCRIPTION : Fuselage, Configuration 3, Lightweight orbiter

Model Scale = .0405

DRAWING NUMBER : VL70-000139

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - IN.	1290.3	52.25715
Max Width - IN.	267.6	10.83780
Max Depth - IN.	244.5	9.90225
Fineness Ratio	4.82175	4.82175
Area - FT^2		
Max. Cross-Sectional	386.67	0.63423
Planform		
Wetted		
Base		

TABLE III. (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - 19

GENERAL DESCRIPTION : Fuselage, Configuration 3, per Rockwell Lines VL70-000139B.

NOTE: Identical to B_{17} except forebody.

Model Scale = .0405

DRAWING NUMBER : VL70-000139B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - IN.	1290.3	52.25715
Max Width - IN.	267.6	10.83780
Max Depth - IN.	244.5	9.90225
Fineness Ratio	4.82175	4.82175
Area - FT^2		
Max. Cross-Sectional	386.67	0.63423
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: BODY - B21

GENERAL DESCRIPTION: Fuselage, Configuration 3, Rockwell Lines per "Alternate cambered forebody for VL70-000139B"

NOTE: B21 identical to B19, except forebody.

Model Scale = .0405

DRAWING NUMBER: Altn. cambered forebody for VL70-000139B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length - IN.	1290.3	52.25715
Max. Width - IN.	267.6	10.83780
Max. Depth - IN.	244.5	9.90225
Fineness Ratio	4.82175	4.82175
Area - FT^2		
Max. Cross-Sectional	386.67	0.63423
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C7

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

Model Scale = .0405

DRAWING NUMBER VL70-000139

DIMENSION:	FULL SCALE	MODEL SCALE
Length (X_o = 433 to X_o = 670) - in. FS	237	9.59850
Max Width		
Max Depth (Z_o = to Z_o = 501) - in FS		
Fineness Ratio		
Area		
Max Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: ELEVON - E23

GENERAL DESCRIPTION: Configuration 3 per W107 Rockwell Lines

VL70-000139B, data for (1) of (2) sides

Model Scale = .0405

DRAWING NUMBER: VL70-000139B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - FT^2	205.52	0.33710
Span (equivalent) - IN.	353.34	14.31027
Inb'd equivalent chord	114.78	4.64859
Outb'd equivalent chord	55.00	2.22750
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.208	.208
At Outb'd equiv. chord	.400	.400
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Tailing Edge	-10.24	-10.24
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)- FT^3	1548.07	0.10284
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: F5 Body Flap

GENERAL DESCRIPTION: 3 Configuration per Rockwell Lines VL70-000139

Scale Model = .0405

DRAWING NUMBER VL70-000139

DIMENSION:	FULL SCALE	MODEL SCALE
Length - in	84.70	3.43035
Max Width - in	267.6	10.83180
Max Depth		
Fineness Ratio		
Area - Ft^2		
Max Cross-Sectional		
Planform	140.00	0.22963
Wetted		
Base	38.0958	0.06249

TABLE III. (CONTINUED)

MODEL COMPONENT: Body Flap - F_6

GENERAL DESCRIPTION: Body Flap for configuration 3, per lines VL70-000139B

NOTE: Flap adjustable from -32.5° to +13.75"

MODEL SCALE = .0405

DRAWING NUMBER

DIMENSION:	FULL SCALE	MODEL SCALE
Length ∿ in.	107.0	4.33350
Max Width ∿ in.	267.6	10.83780
Max Depth		
Fineness Ratio		
Area ∿ Ft^2		
Max Cross-Sectional		
Planform	174.55	0.28630
Wetted		
Base	38.0958	0.06249

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H2

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-000139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	13	0.021
Span ~ in.	43.878	1.777
Aspect Ratio	2.06	2.06
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0, 10, 20	0, 10, 20
Sweep Back Angle ~ deg.	60	60
Chords ~ in.		
Root	85.326	3.456
Tip	0	0
MAC	56.884	2.304
Apex Location ~ in.		
X_o	470	19.035
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o	534	21.627
Y_o		
Z_o	410	16.605

DSM 467 Exp. Date 11-9-73

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H3

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-C00139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	26	0.092
Span ~ in.	62.054	2.513
Aspect Ratio	2.06	2.06
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0,10,20	0,10,20
Sweep Back Angle ~ deg.	60	60
Chords ~ in.		
Root	120.670	4.887
Tip	0	0
MAC	80.447	3.258
Apex Location ~ in.		
X_o	432	17.496
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o	534	21.627
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H4

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-000139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	13	0.021
Span ~ in.	46.058	1.865
Aspect Ratio	2.27	2.27
Taper Ratio	0.20	0.20
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0, 10, 20	0, 10, 20
Sweep Back Angle ~ deg.	45	45
Chords ~ in.		
Root	67.734	2.743
Tip	13.555	0.549
MAC	46.661	1.890
Apex Location ~ in.		
X_o	487	19.723
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o	534	21.627
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H 5

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-000139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	26	0.043
Span ~ in.	65.142	2.638
Aspect Ratio	2.27	2.27
Taper Ratio	0.20	0.20
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0, 10, 20	0, 10, 20
Sweep Back Angle ~ deg.	45	45
Chords ~ in.		
Root	95.788	3.879
Tip	19.160	0.776
MAC	65.987	2.672
Apex Location ~ in.		
X_o	466	18.873
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o	534	21.627
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H6

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-0001398), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	25	0.041
Span ~ in.	65.278	2.649
Aspect Ratio	2.37	2.37
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	50	50
Chords ~ in.		
Root	101.554	4.113
Tip	0	0
MAC	67.703	2.742
Apex Location ~ in.		
X_o	463	18.752
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H7

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70.000139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	50	0.082
Span ~ in.	92.317	3.739
Aspect Ratio	2.37	2.37
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	50	50
Chords ~ in.		
Root	143.619	5.816
Tip	0	0
MAC	95.746	3.878
Apex Location ~ in.		
X_o	430	17.415
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H8

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines V470-0001398), mid-glove mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	13	0.021
Span ~ in.	43.210	1.750
Aspect Ratio	2.25	2.25
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	49	49
Chords ~ in.		
Root	84.025	3.403
Tip	0	0
MAC	56.017	2.269
Apex Location ~ in.		
X_o	620	25.110
Y_o		
Z_o	307.5	12.454
Area Centroid Location ~ in.		
X_o	670	27.135
Y_o		
Z_o	307.5	12.454

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H9

GENERAL DESCRIPTION: Trimmers used on modified configuration 3 vehicle (Rockwell Lines VL7C-000139B), mid-glove mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	26	0.043
Span ~ in.	61.778	2.502
Aspect Ratio	2.04	2.04
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	49	49
Chords ~ in.		
Root	120.123	4.865
Tip	0	0
MAC	80.082	3.243
Apex Location ~ in.		
X_o	600	24.300
Y_o		
Z_o	308.5	12.494
Area Centroid Location ~ in.		
X_o	670	27.135
Y_o		
Z_o	308.5	12.494

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H 10

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell lines UL70-000139B), mid-glove mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	6.5	0.011
Span ~ in.	21.456	0.869
Aspect Ratio	0.984	0.984
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	64	64
Chords ~ in.		
Root	87.248	3.533
Tip	0	0
MAC	58.165	2.356
Apex Location ~ in.		
X_o	620	25.110
Y_o		
Z_o	307.5	12.454
Area Centroid Location ~ in.		
X_o	670	27.135
Y_o		
Z_o	307.5	12.454

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H II

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines U;70-000139B), mid-glove mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	13	0.021
Span ~ in.	30.541	1.237
Aspect Ratio	0.996	0.996
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	64	64
Chords ~ in.		
Root	122.591	4.965
Tip	0	0
MAC	81.727	3.309
Apex Location ~ in.		
X_o	610	24.705
Y_o		
Z_o	308.0	12.474
Area Centroid Location ~ in.		
X_o	670	27.135
Y_o		
Z_o	308.0	12.474

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H12

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-0001398), glove apex mount

MODEL SCALE = .0405

DRAWING NUMBER 3S-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	50	0.082
Span ~ in.	69.464	2.813
Aspect Ratio	1.34	1.34
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	59	59
Chords ~ in.		
Root	203.111	8.226
Tip	0	0
MAC	135.907	5.484
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H 13

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-C001398), glove - apex mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A000029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	85	0.139
Span ~ in.	113.572	4.599
Aspect Ratio	2.11	2.11
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	45	45
Chords ~ in.		
Root	203.111	8.226
Tip	0	0
MAC	135.407	5.484
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H14

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines U170-000398), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	25	0.041
Span ~ in.	65.278	2.694
Aspect Ratio	2.37	2.37
Taper Ratio	0	0
Dihedral Angle ~ deg.	45	45
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	50	50
Chords ~ in.		
Root	101.554	4.113
Tip	0	0
MAC	67.703	2.742
Apex Location ~ in.		
X_o	463	18.752
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H15

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-000139B), body mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	50	0.082
Span ~ in.	92.317	3.739
Aspect Ratio	2.37	2.37
Taper Ratio	0	0
Dihedral Angle ~ deg.	45	45
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	50	50
Chords ~ in.		
Root	143.619	5.816
Tip	0	0
MAC	95.746	3.878
Apex Location ~ in.		
X_o	430	17.415
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H16

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-000139B)

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	84.5	0.139
Span ~ in.	33.618	3.386
Aspect Ratio	1.15	1.15
Taper Ratio	1.15	1.15
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	62	62
Chords ~ in.		
Root	286	11.583
Tip	0	0
MAC	190.667	7.722
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H17

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines UL70-000139B), glove apex mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	168.5	0.276
Span ~ in.	159.929	6.477
Aspect Ratio	2.11	2.11
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	45	45
Chords ~ in.		
Root	286	11.583
Tip		
MAC	190.667	7.722
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H18

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-0001398), glove apex mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	54.0	0.088
Span ~ in.	54.307	2.199
Aspect Ratio	0.75	0.75
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	68	68
Chords ~ in.		
Root	284.615	11.527
Tip	0	0
MAC	189.743	7.684
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H23

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-000139B), nose mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	21	0.034
Span ~ in.	65.550	2.655
Aspect Ratio	2.84	2.84
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	31	31
Chords ~ in.		
Root	77.295	3.130
Tip	0	0
MAC	51.530	2.087
Apex Location ~ in.		
X_o	279	11.299
Y_o		
Z_o	410	16.605
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	410	16.605

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H24

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-000139B), glove apex mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	30	0.049
Span ~ in.	40.478	1.639
Aspect Ratio	1.52	1.52
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0.50	0.50
Sweep Back Angle ~ deg.	68	68
Chords ~ in.		
Root	212.140	8.592
Tip	0	0
MAC	141.427	5.728
Apex Location ~ in.		
X_o	500	20.250
Y_o		
Z_o	312.3	12.648
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	312.3	12.648

TABLE III. (CONTINUED)

MODEL COMPONENT: Trimmer - H25

GENERAL DESCRIPTION: Trimmer used on modified configuration 3 vehicle (Rockwell Lines VL70-000139B), nose mount

MODEL SCALE = .0405

DRAWING NUMBER SS-A00029

DIMENSION:	FULL SCALE	MODEL SCALE
EXPOSED DATA (one side)		
Area ~ ft^2	21	0.034
Span ~ in.	65.55	2.654
Aspect Ratio	2.84	2.84
Taper Ratio	0	0
Dihedral Angle ~ deg.	0	0
Incidence Angle ~ deg.	0	0
Sweep Back Angle ~ deg.	21	21
Chords ~ in.		
Root	77.295	3.130
Tip	0	0
MAC	51.530	2.087
Apex Location ~ in.		
X_o	279	11.299
Y_o		
Z_o	331.0	13.405
Area Centroid Location ~ in.		
X_o		
Y_o		
Z_o	331.0	13.405

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod - M_4

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139

NOTE: M4 identical to M3, except intersection to fuselage.

Model Scale = .0405

DRAWING NUMBER VL70-000139

DIMENSION:	FULL SCALE	MODEL SCALE
Length - IN	346.0	14.01300
Max Width - IN	108.0	4.37400
Max Depth - IN	113.0	4.57650
Fineness Ratio		
Area - FT^2		
Max Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: RUDDER - R_6

GENERAL DESCRIPTION:

NOTE: Identical to R_5 except notch along T.E. of rudder

Model Scale = .0405

DRAWING NUMBER: L70-000095

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area - FT^2	106.38	0.17449
Span (equivalent) - IN.	201.0	8.14050
Inb'd equivalent chord	91.585	3.70919
Outb'd equivalent chord	50.833	2.05874
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line)- FT^3 Product of Area and Mean Chord	526.13	0.03495

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TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V 7

GENERAL DESCRIPTION: Centerline vertical tail, doublewedge airfoil with rounded leading edge.

NOTE: Same as V5, but with manipulator housing removed.

Model Scale = .0405

DRAWING NUMBER: VL70-000139

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) Ft^2	425.92	0.69861
Planform		
Span (Theo) In	315.72	12.78666
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	10.87425
Tip (Theo) WP	108.47	4.39303
MAC	199.81	8.09230
Fus. Sta. of .25 MAC	1463.50	59.27175
W. P. of .25 MAC	635.522	25.73864
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius	2.0	0.08100
Void Area - Ft^2	13.17	0.02160
Blanketed Area	0.00	0.00

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W 107

GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-0001393

NOTE: Same as W103. except cuff, airfoil and incidence angle.

Model Scale = .0405

TEST NO. DWG. NO. VL70-000139B

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2 Planform	2690.00	4.41227
Span (Theo In.	936.68	37.93554
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees (@ TE of Elevon)	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.000	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	27.91422
Tip, (Theo) B.P.	137.85	5.58292
MAC	474.81	19.22980
Fus. Sta. of .25 MAC	1136.89	46.04404
W.P. of .25 MAC	299.20	12.11760
B.L. of .25 MAC	182.13	7.37626
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	2.87419
Span, (Theo) In. BP108	720.68	29.18754
Aspect Ratio	2.053	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	22.77720
Tip 1.00 $\frac{b}{2}$	137.85	5.58292
MAC	393.03	15.91771
Fus. Sta. of .25 MAC	1185.31	48.00506
W.P. of .25 MAC	300.20	12.15810
B.L. of .25 MAC	251.76	10.19628
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.10	0.10
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	118.333	0.19410
Leading Edge Intersects Fus M. L. @ Sta	500	20.25000
Leading Edge Intersects Wing @ Sta	1083.4	43.87770

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W110

GENERAL DESCRIPTION: Configuration 3

NOTE: Same as W107 except upper surface is straight line.

Model Scale = .0405

TEST NO. DWG. NO.

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo.) Ft^2	2690.00	4.41227
Planform	936.68	37.93554
Span (Theo In.	2.265	2.265
Aspect Ratio	1.177	1.177
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees (@ TE of Elevon)	0.500	0.500
Incidence Angle, degrees	+3.000	+3.000
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.0.0.	689.24	27.91422
Tip, (Theo) B.P.	137.85	5.58292
MAC	474.81	19.22980
Fus. Sta. of .25 MAC	1136.89	46.04404
W.P. of .25 MAC	299.20	12.11760
B.L. of .25 MAC	182.13	7.37626
EXPOSED DATA		
Area (Theo) Ft^2	1752.29	2.87419
Span, (Theo) In. BP108	720.68	29.18754
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	22.77220
Tip 1.00 $\frac{b}{2}$	137.85	5.58292
MAC	393.03	15.91771
Fus. Sta. of .25 MAC	1185.31	48.00506
W.P. of .25 MAC	300.20	12.15810
B.L. of .25 MAC	251.76	10.19628
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ =	0.10	0.10
Tip $\frac{b}{2}$ =	0.12	0.12
Data for (1) of (2) Sides		
Leading Edge Cuff Planform Area Ft^2	118.333	0.19410
Leading Edge Intersects Fus M. L. @ Sta	500	20.25000
Leading Edge Intersects Wing @ Sta	1083.4	43.87770

TABLE III. (CONTINUED)

MODEL COMPONENT: SPEED BRAKE - Z2

GENERAL DESCRIPTION: SPEED BRAKE MOUNTED ON WING UPPER SURFACE OF MODIFIED VEHICLE 3 , VL70-000139B

MODEL SCALE = .0405

DRAWING NUMBERS:

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	NA	NA
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area	137.6	0.2256
Span, (equivalent)/side	107	4.333
Aspect Ratio	1.156	1.156
Taper Ratio	1.0	1.0
Chords		
Root	107	4.333
Tip	107	4.333
Fus. Sta. of Hingeline	1195	48.398

TABLE III. (CONTINUED)

MODEL COMPONENT: SPEED BRAKE - Z3

GENERAL DESCRIPTION: FLAT PLATE SPEED BRAKE MOUNTED ON WING LOWER SURFACE (AHEAD OF LANDING GEAR) OF MODIFIED CONFIGURATION 3, VL70-000139B

MODEL SCALE = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	NA	NA
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area	62.9	0.103
Span, (equivalent) PER SIDE	84	3.402
Aspect Ratio	1.558	1.558
Taper Ratio	1.0	1.0
Chords		
Root	62	2.511
Tip	62	2.511
Fus. Sta. of Hingeline	1042	42.201

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TABLE III. (CONTINUED)

MODEL COMPONENT: SPEED BRAKE - Z4

GENERAL DESCRIPTION: FLAT PLATE SPEED BRAKE MOUNTED ON OMS POD OF MODIFIED CONFIGURATION 3 VEHICLE, UL70-000139B

MODEL SCALE = .0405

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	NA	NA
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area	91.7	0.150
Span, (equivalent)/side	120	
Aspect Ratio	2.18	2.18
Taper Ratio	1.20	1.20
Chords		
Root	100	4.050
Tip	120	4.860
Fus. Sta. of Hingeline	1319	53.419

TABLE III. (CONCLUDED)

MODEL COMPONENT: SPEED BRAKE - 25

GENERAL DESCRIPTION: FLAT PLATE SPEED BRAKE MOUNTED ON FUSELAGE SIDE OF TRAILING EDGE (BODY FLAP) OF CONFIGURATION 3 VEHICLE, VL70-000139 B

MODEL SCALE = .0405

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	NA	NA
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge		
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area	79	0.129
Span, (equivalent)/side	120	4.860
Aspect Ratio	2.532	2.532
Taper Ratio	0.629	0.629
Chords		
Root	140	5.670
Tip	88	3.564
Fus. Sta. of Hingeline	1528	61.884

NASA-MSFC-MAF

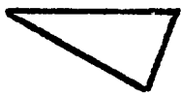
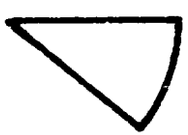
CANARD SYMBOL NO.	MOUNT	PLANFORM SKETCH	AREA (FT^2/SIDE)	L.E. SWEEP (DEG)	INCIDENCE ANGLES (DEG)	DIHEDRAL ANGLES (DEG)
H_2	BODY	AR=2.06	13	60	0, + 10, + 20	0
H_3	BODY	 AR=2.06	26	60		
H_4	BODY	λ = .2	13	45		
H_5	BODY	λ = .2	26	45		
$H_{6,14}$	BODY		25	ANGLE FROM MOUNTING SURFACE 40	0	0, +45
$H_{7,15}$	BODY		50	ANGLE FROM MOUNTING SURFACE 40	0	
H_8	MID-GLOVE		13	ANGLE FROM MOUNTING SURFACE 30	0° WITH RESPECT TO GLOVE	0

TABLE IV. SUMMARY OF CANARD GEOMETRIES

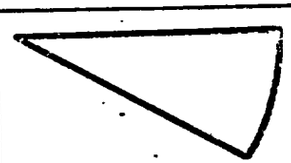
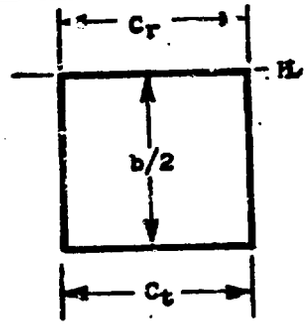
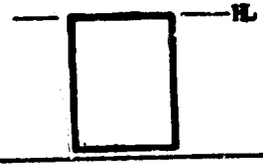
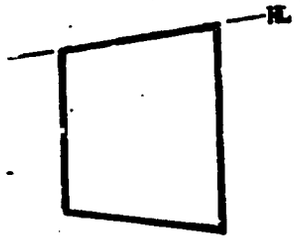
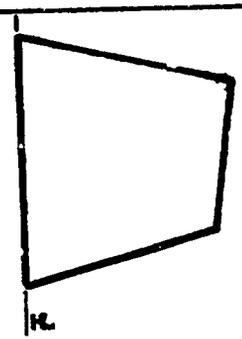
CANARD SYMBOL NO.	MOUNT	PLANFORM SKETCH	AREA (FT^2/SIDE)	L. E. SWEEP (DEG.)	INCIDENCE ANGLES (DEG)	DIHEDRAL ANGLES (DEG)
H_9	MID-GLOVE		26	ANGLE FROM MOUNTING SURFACE 30	WITH RESPECT 0 TO GLOVE	0
H_{10}	MID-GLOVE		6.5	ANGLE FROM MOUNTING SURFACE 15		
H_{11}	MID-GLOVE		13	ANGLE FROM MOUNTING SURFACE 15		
H_{12}	GLOVE APEX		50	ANGLE FROM MOUNTING SURFACE 20		
H_{13}	GLOVE APEX		85	ANGLE FROM MOUNTING SURFACE 34		
H_{16}	GLOVE APEX		84.5	ANGLE FROM MOUNTING SURFACE 17		
H_{17}	GLOVE APEX		168.5	ANGLE FROM MOUNTING SURFACE 34		

TABLE IV. (CONTINUED)

CANARD SYMBOL NO.	MOUNT	PLANFORM SKETCH	AREA (FT^2/SIDE)	L.E. SWEEP ANGLES (DEG)	INCIDENCE ANGLES (DEG)	DIHEDRAL ANGLES (DEG)
H_{18}	GLOVE APEX		54.0	11	0.50	0
H_{24}	GLOVE APEX		~30	11	0.50	0
H_{23}	NOSE		21	21	0	0
H_{25}	NOSE		21	21	0	0

TABLE IV. (CONCLUDED)

TABLE V. SUMMARY OF SPEED BRAKE GEOMETRIES

SYMBOL	PLANFORM SKETCH	MOUNTING SURFACE	HINGELINE X LOCATION (F.S. STA IN.)	DEFLECTION ANGLE (DEG. TO LOCAL SURFACE)	EXPOSED AREA (FT²)	EXPOSED SEMISPAN b/2 (IN.)	EXPOSED CHORD	
							TIP C_t (IN.)	ROOT C_r (IN.)
Z_2		WING UPPER SURFACE	1195	5	137.6	107	107	107
Z_3		WING LOWER SURFACE (AHEAD OF LANDING GEAR)	1042	60	62.9	84	62	62
Z_4		CMS POD	1319	60	91.7	120	120	100
Z_5		FUSELAGE SIDE AT TRAILING EDGE (BODY FLAP)	(APPROX) 1528	60	79	128(TOP) 112(BOTTOM)	88	140

MODEL FIGURES

Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

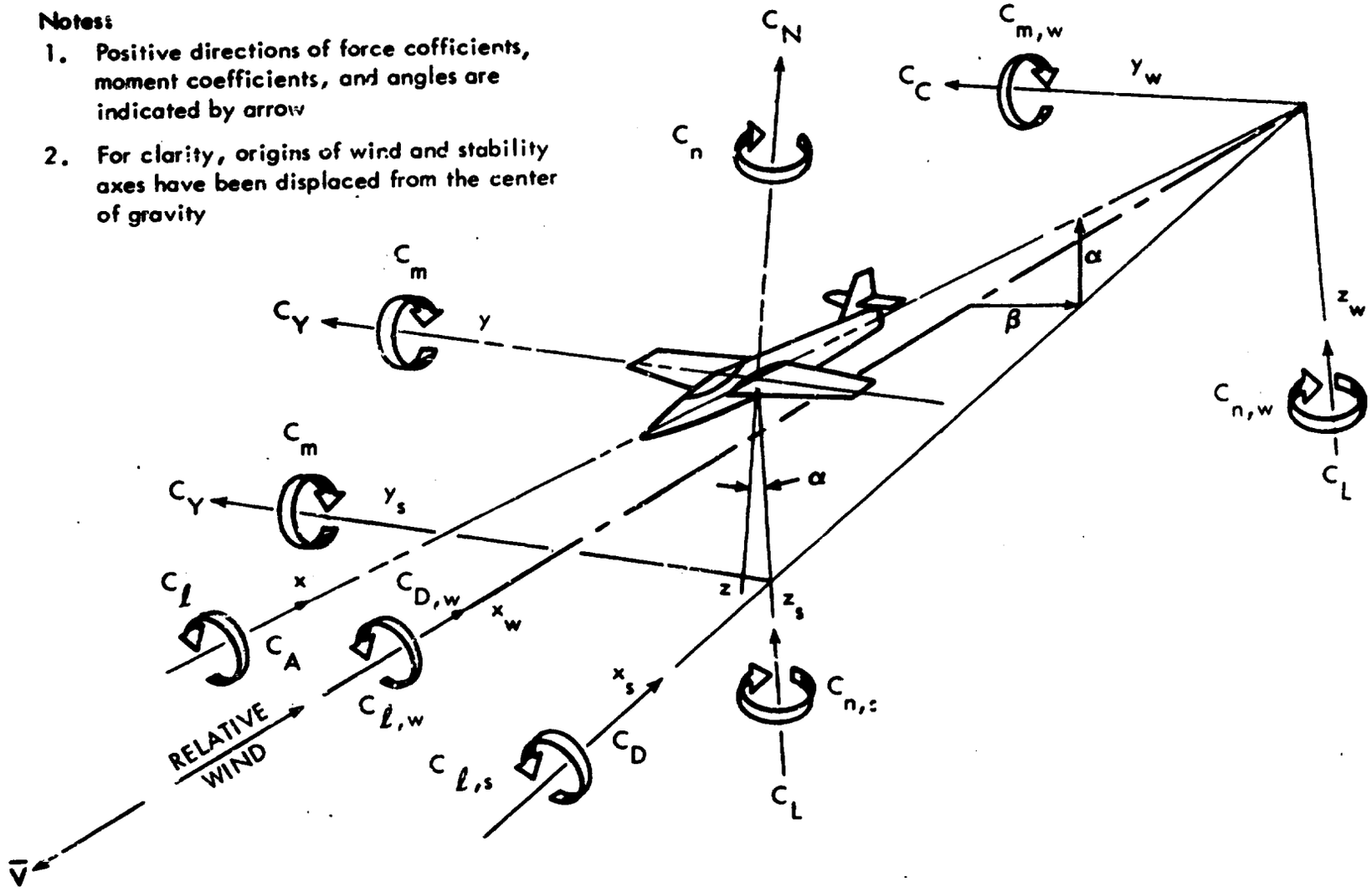
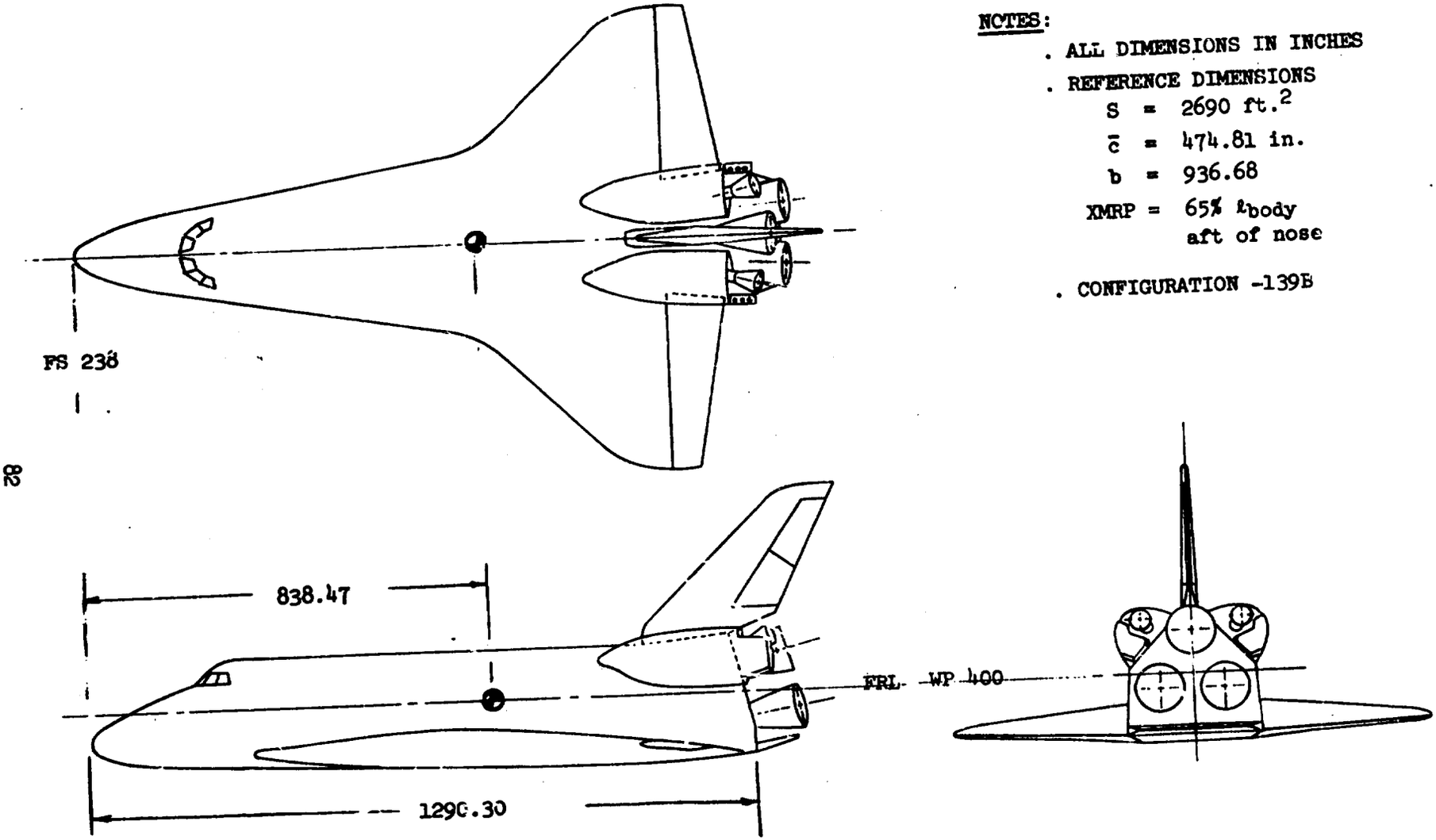


Figure 1. - Axis Systems.



NOTES:

. ALL DIMENSIONS IN INCHES

. REFERENCE DIMENSIONS

S = 2690 ft.^{2}

$\bar{c}$ = 474.81 in.

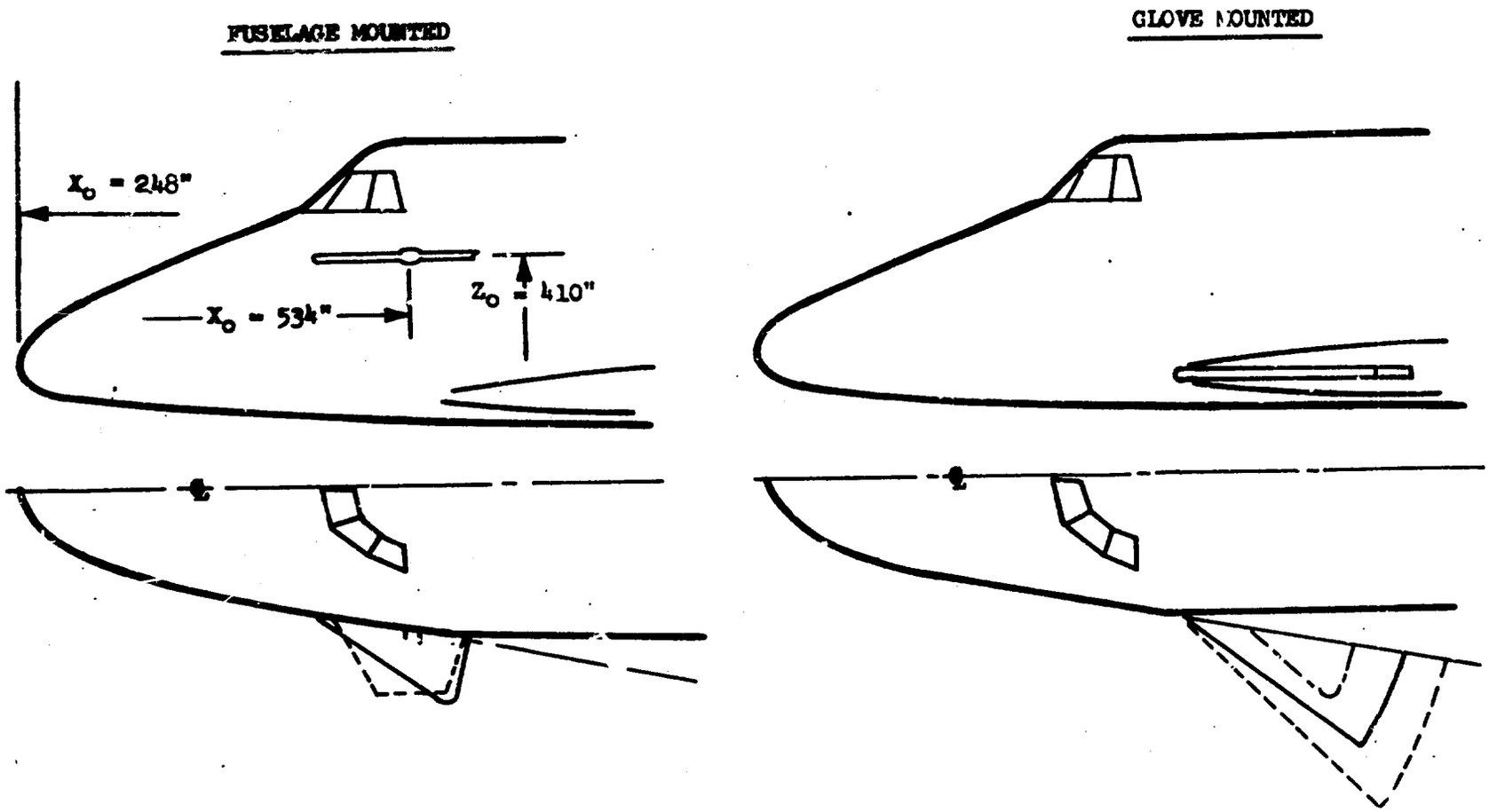
b = 936.68

XMRP = 65% ℓ_{body} aft of nose

. CONFIGURATION -139B

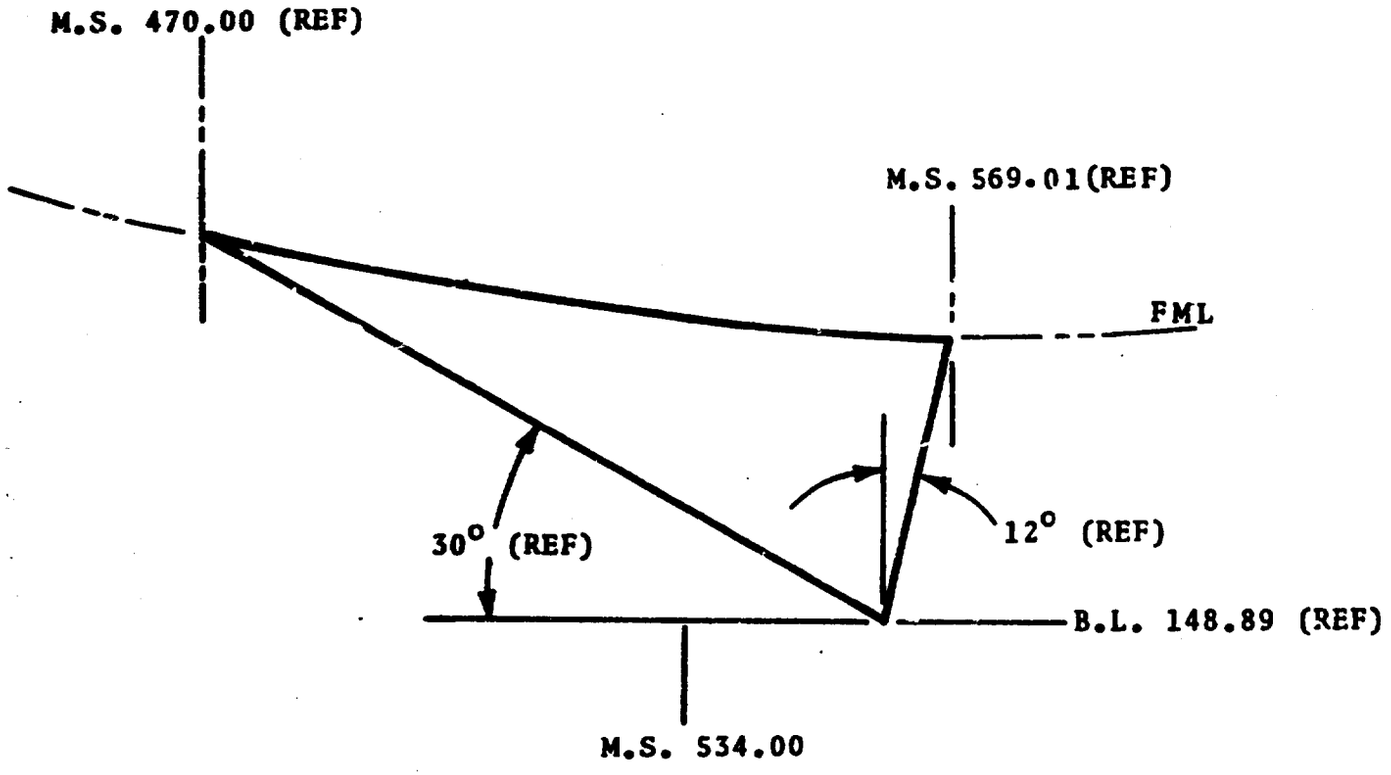
a. General Arrangement

Figure 2. - Model Sketches.



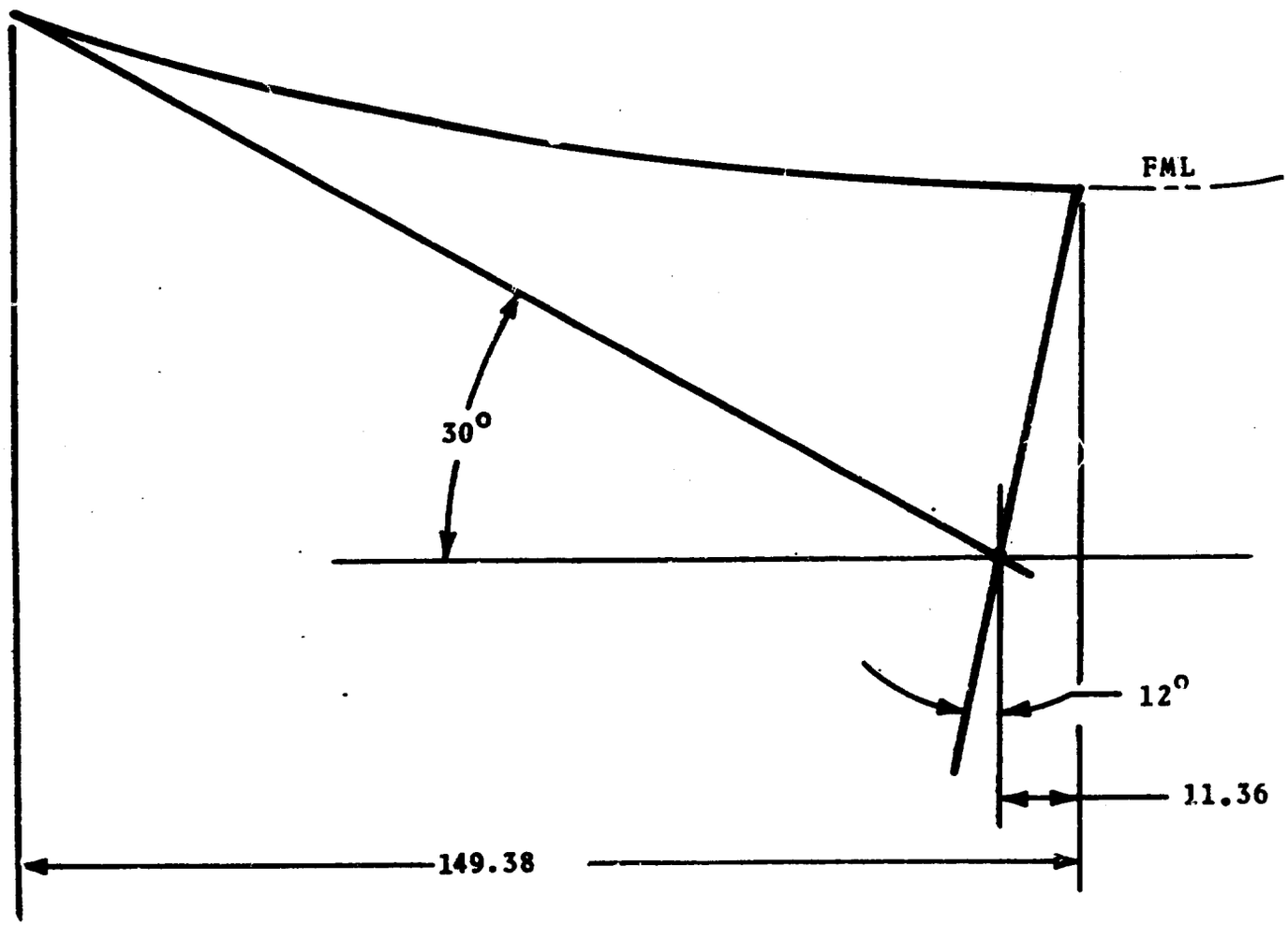
b. Trimmer Types

Figure 2. - Continued.



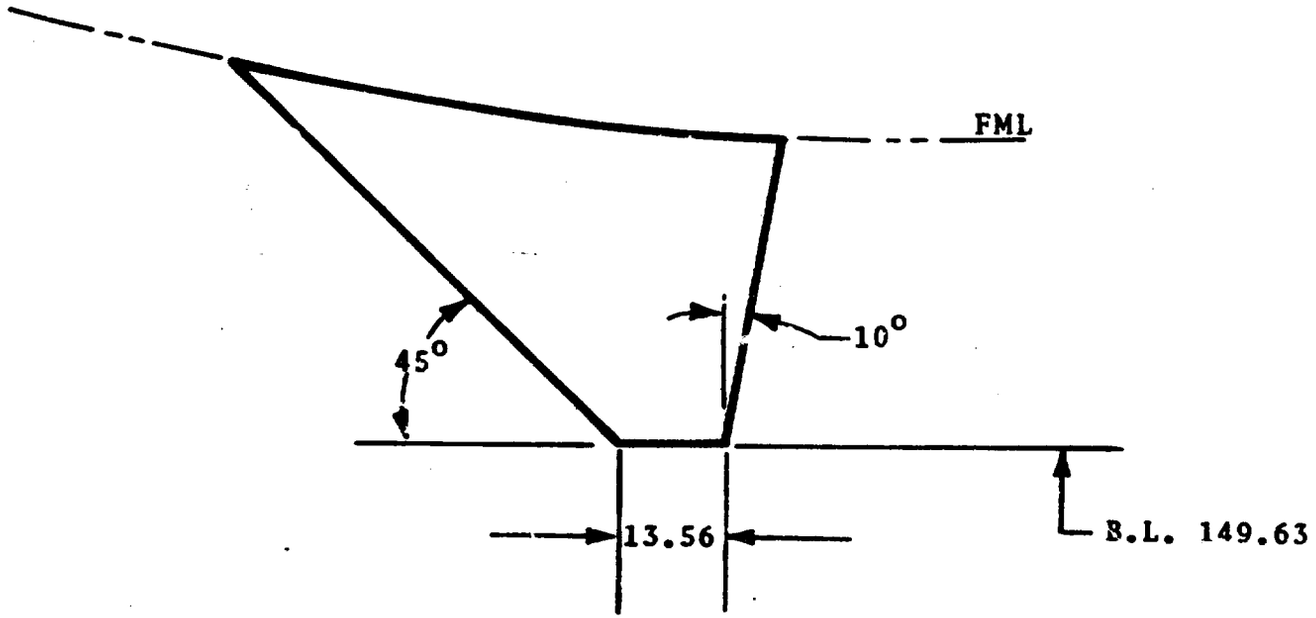
c. H_2 Trimmer

Figure 2. - Continued.



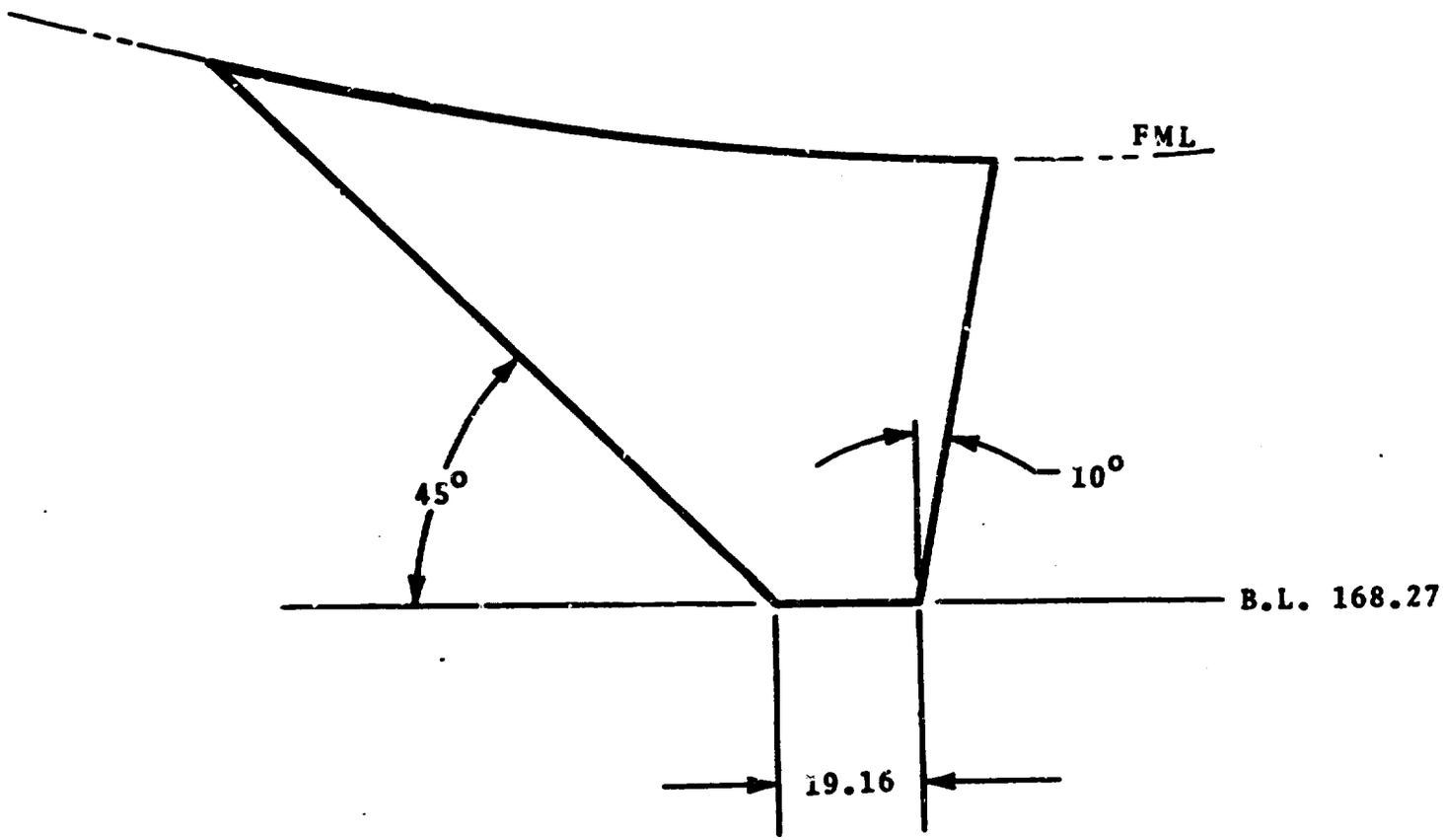
d. H_3 Trimmer

Figure 2. - Continued.



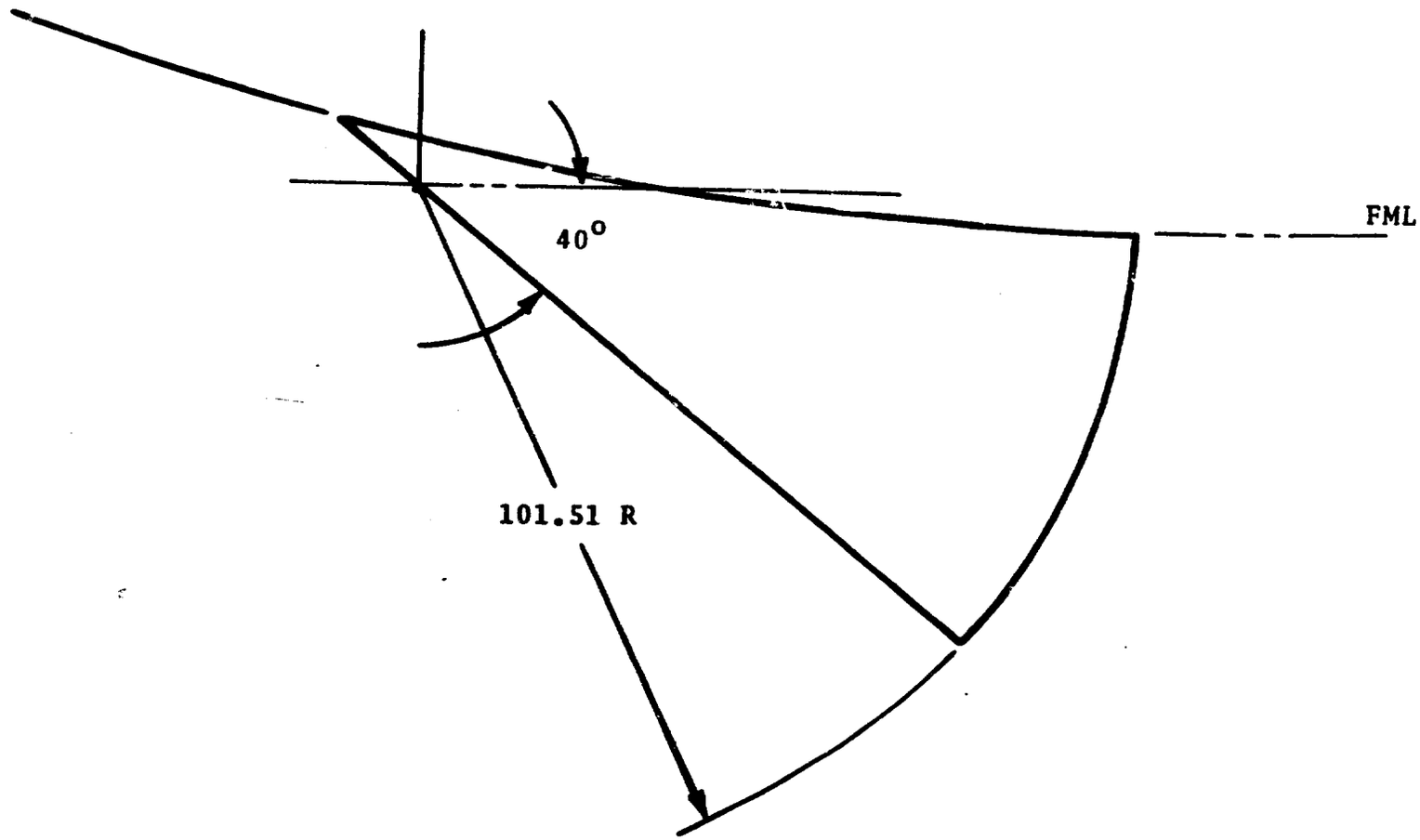
e. H_4 Trimmer

Figure 2. - Continued.



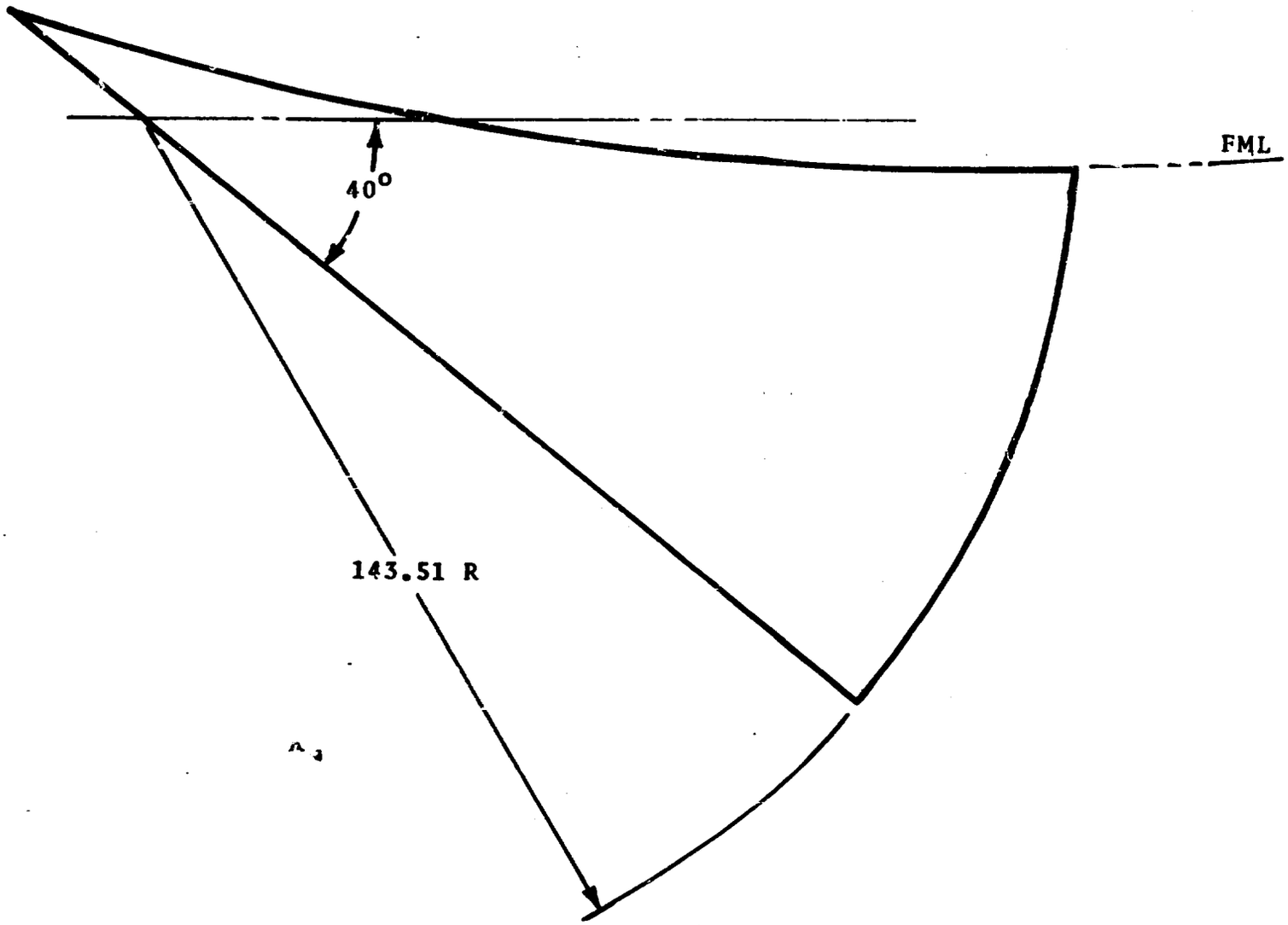
f. H_5 Trimmer

Figure 2. - Continued.



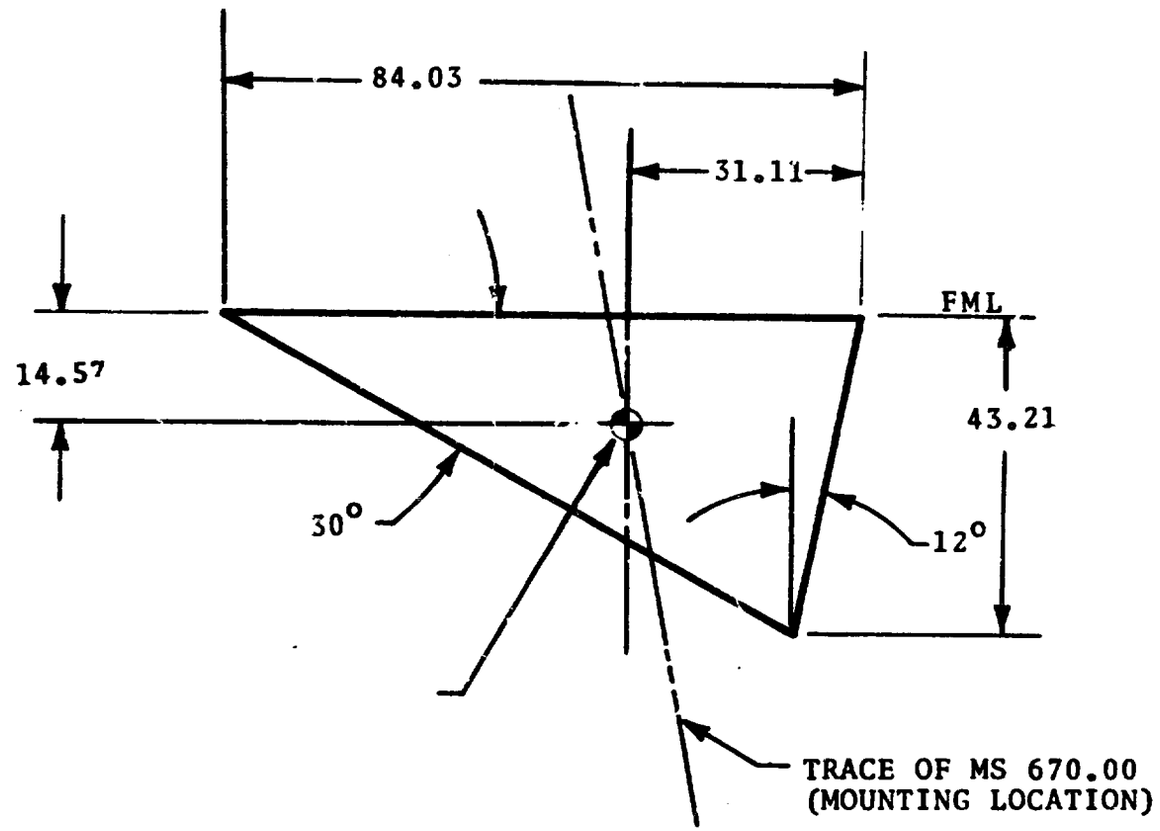
g. H_6 Trimmer

Figure 2. - Continued.



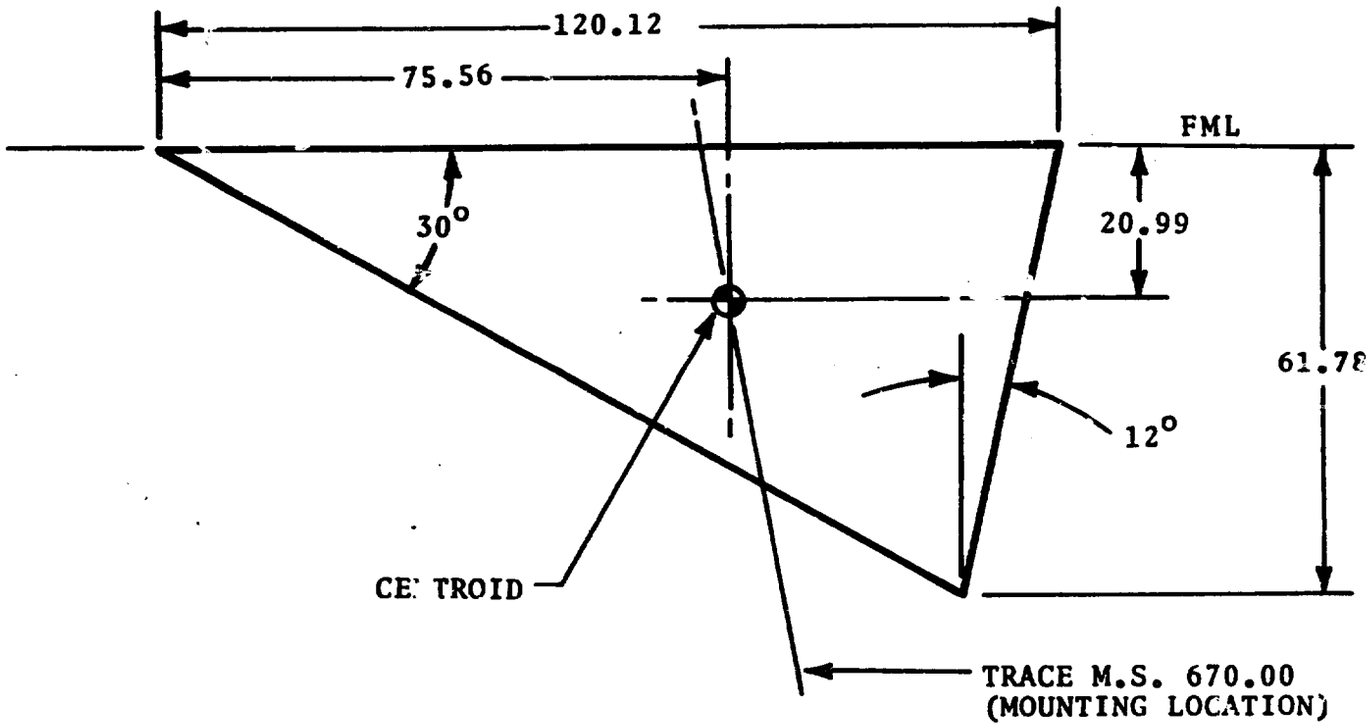
h. H_7 Trimmer

Figure 2. - Continued.



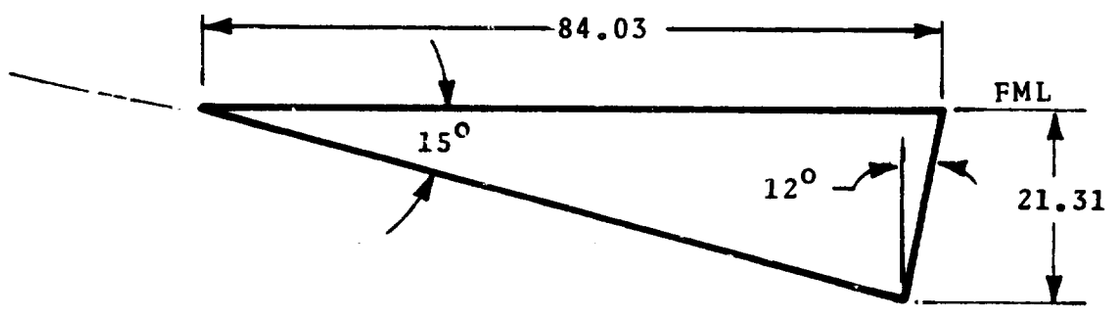
i. H_8 Trimmer

Figure 2. - Continued.



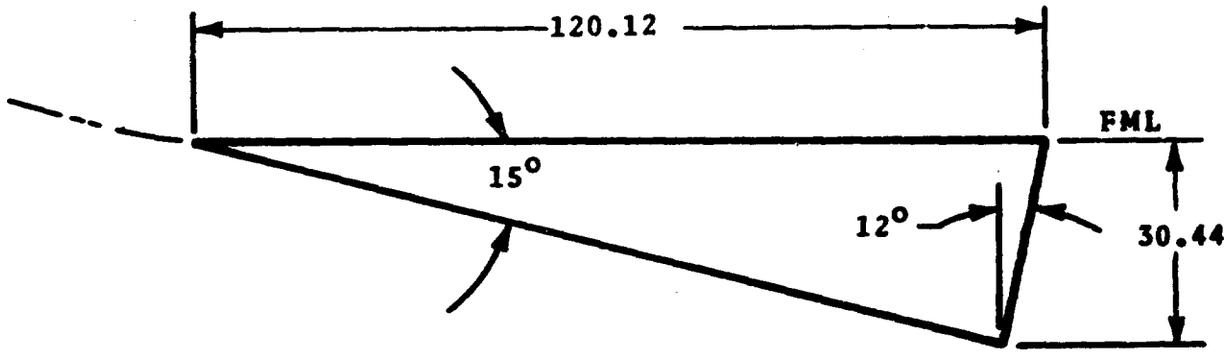
j. H_9 Trimmer

Figure 2. - Continued.



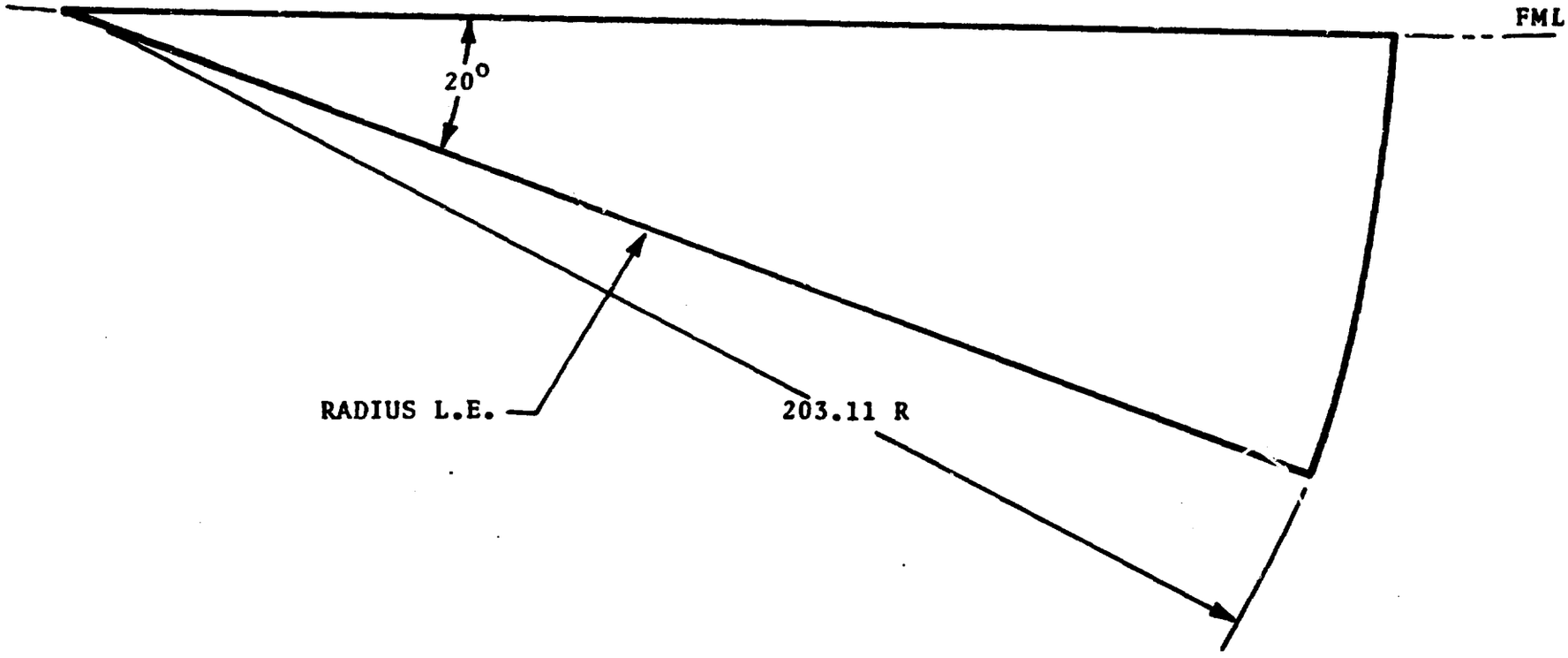
k. H_{10} Trimmer

Figure 2. - Continued.



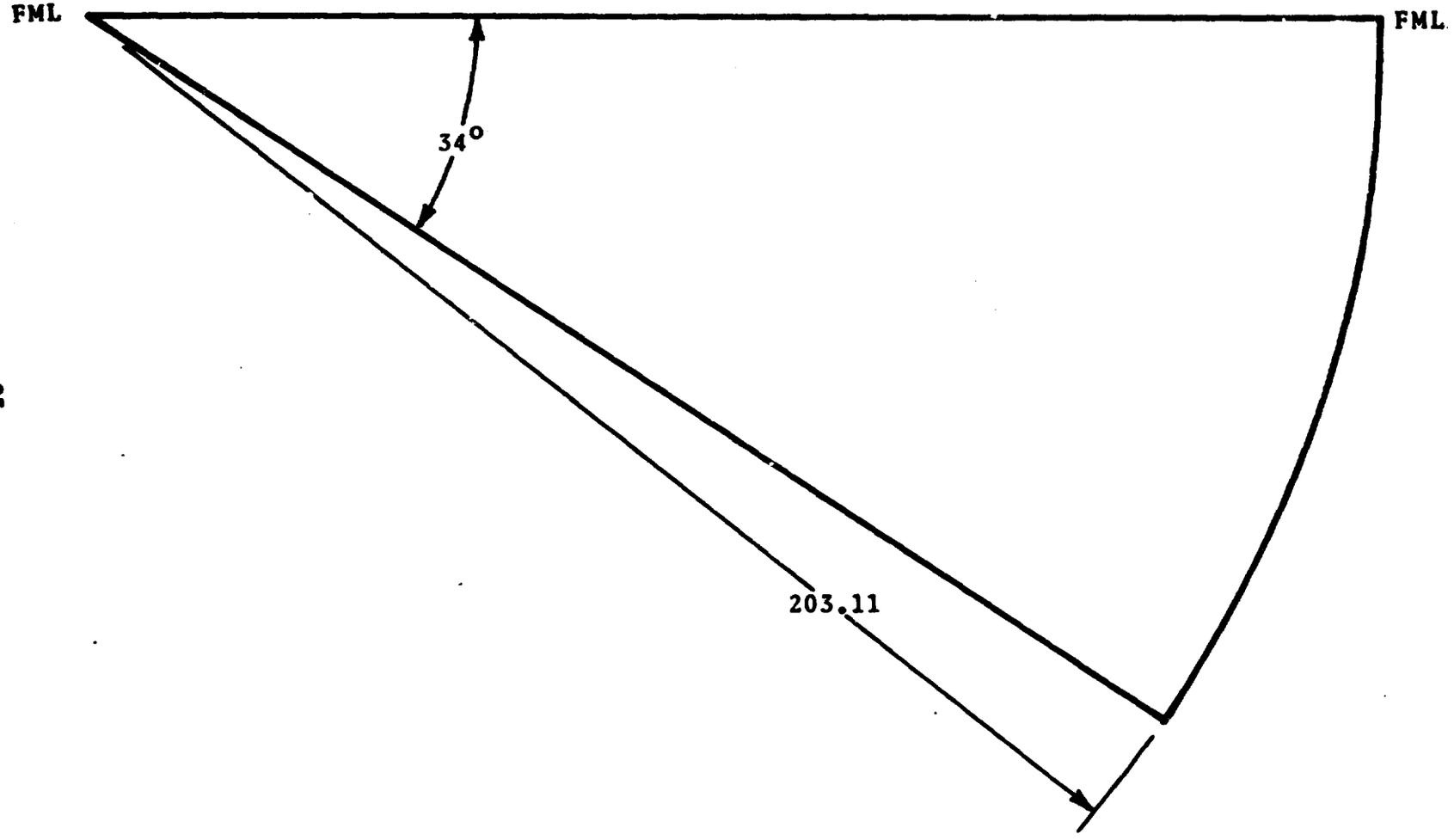
1. H_{11} Trimmer

Figure 2. - Continued.



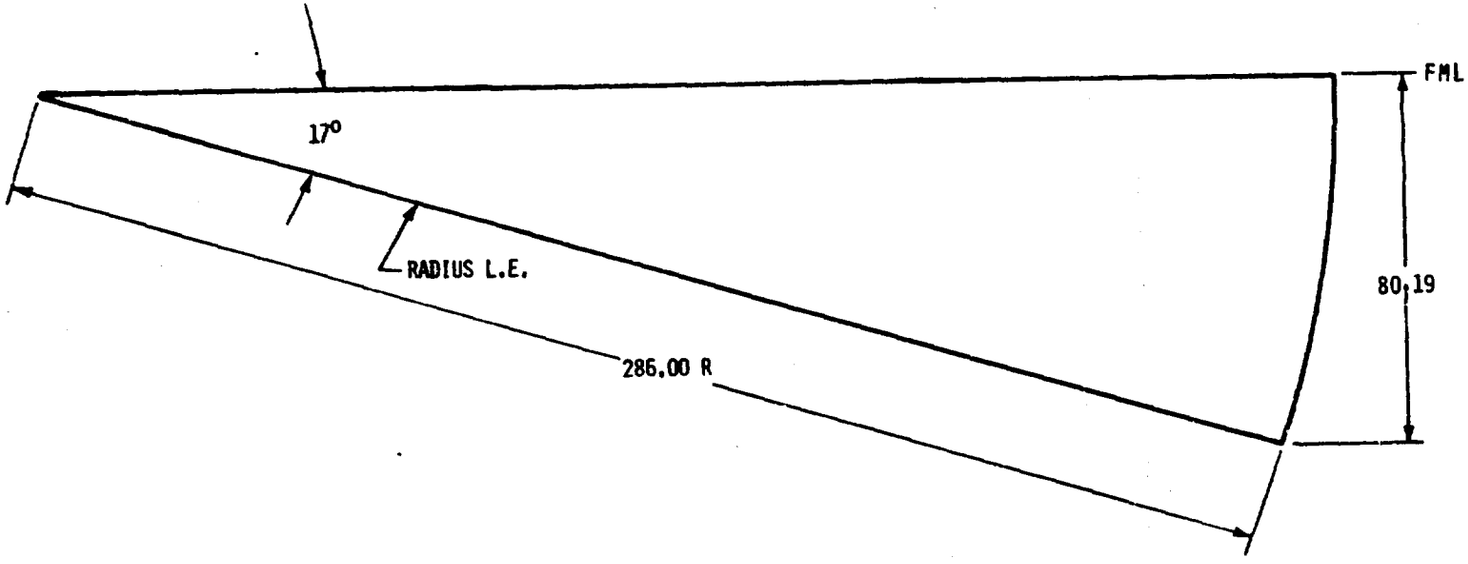
m. H_{12} Trimmer

Figure 2. - Continued.



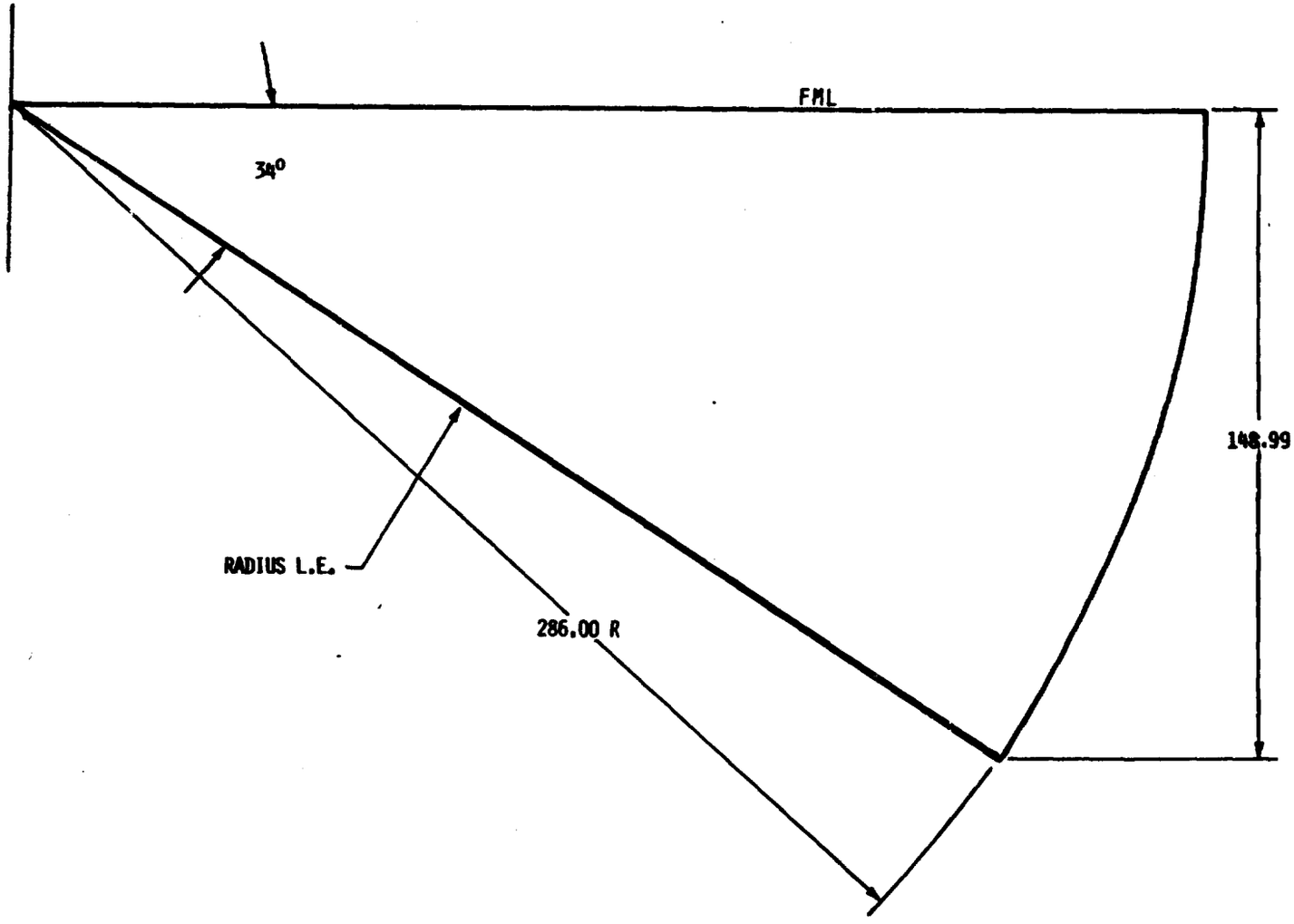
n. H_{13} Trimmer

Figure 2. - Continued.



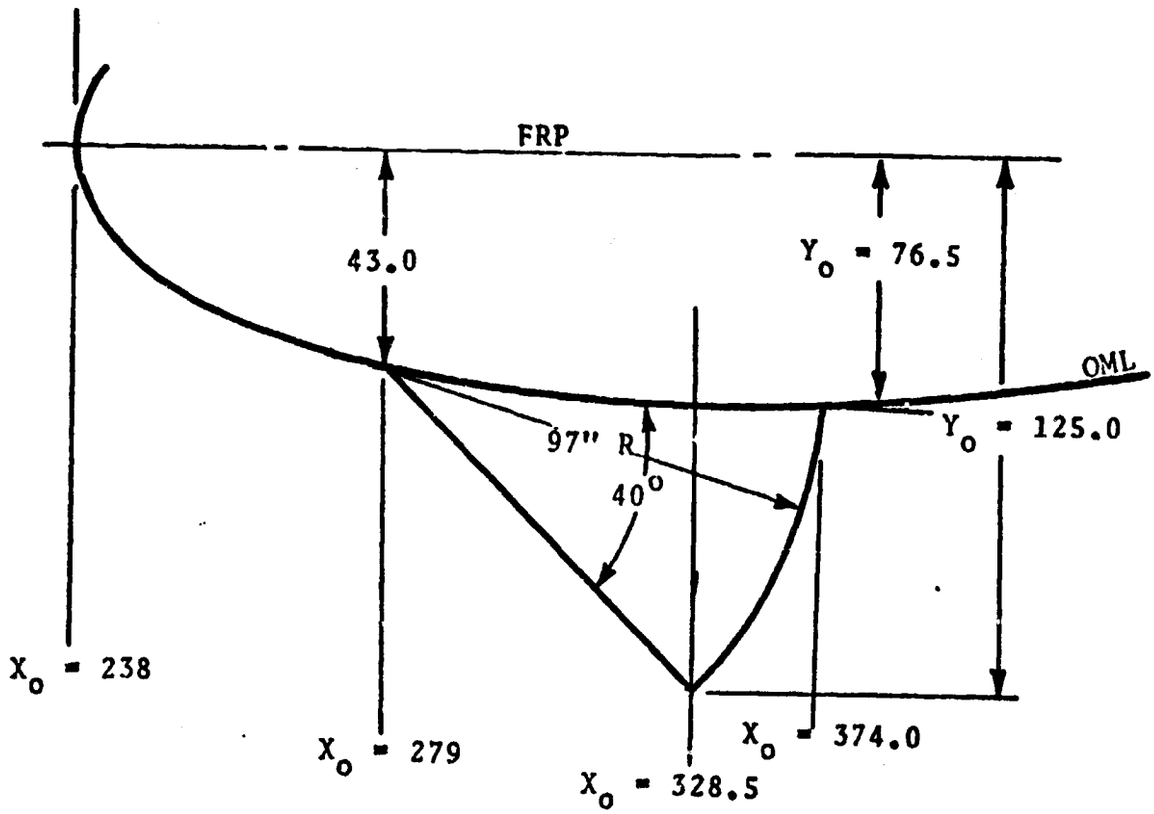
o. H_{16} Trimmer

Figure 2. - Continued.



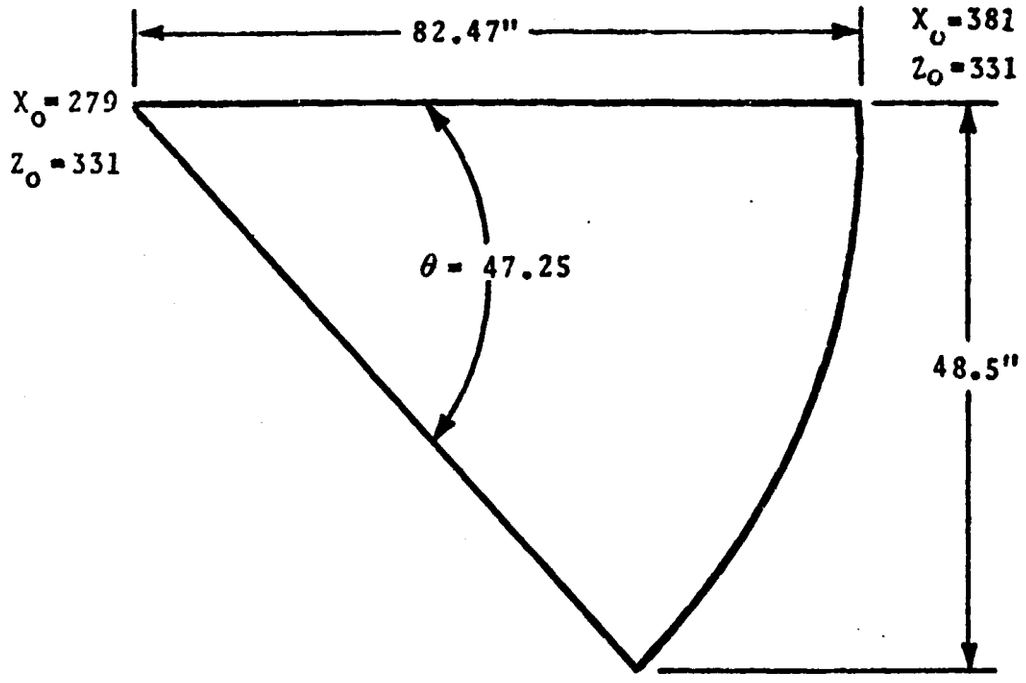
p. H_{17} Trimmer

Figure 2. - Continued.



q. H_{23} Trimmer

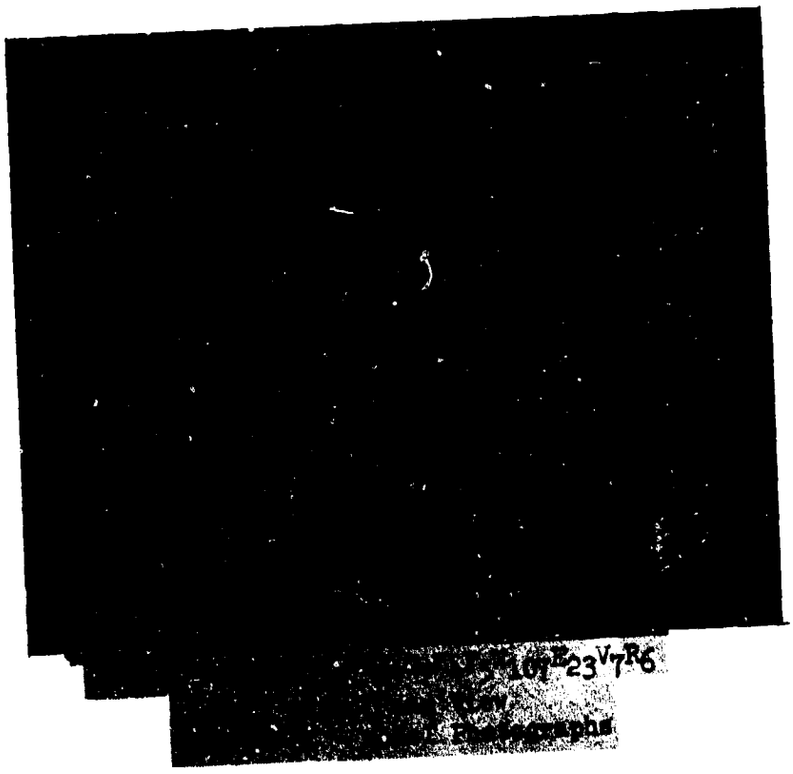
Figure 2. - Continued.



r. H_{25} Trimmer

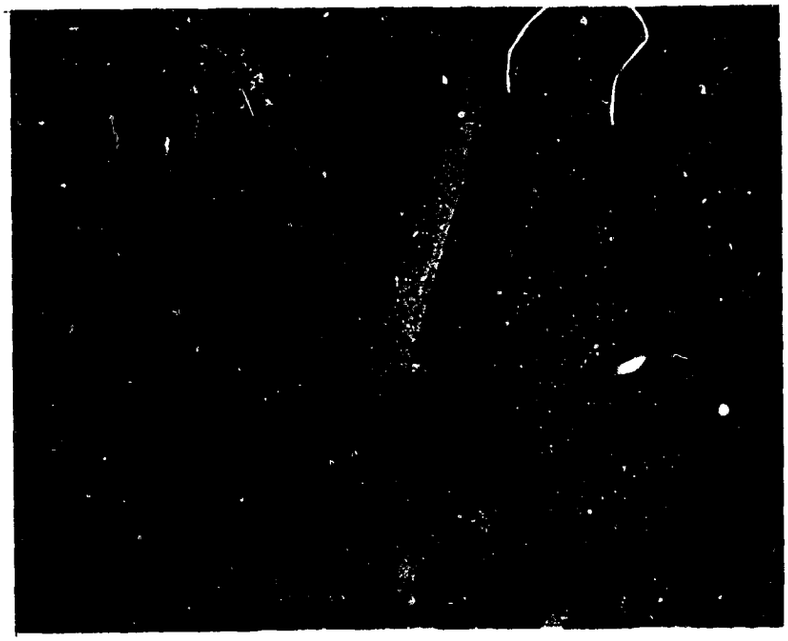
Figure 2. - Concluded.

[redacted]107E23V7R6

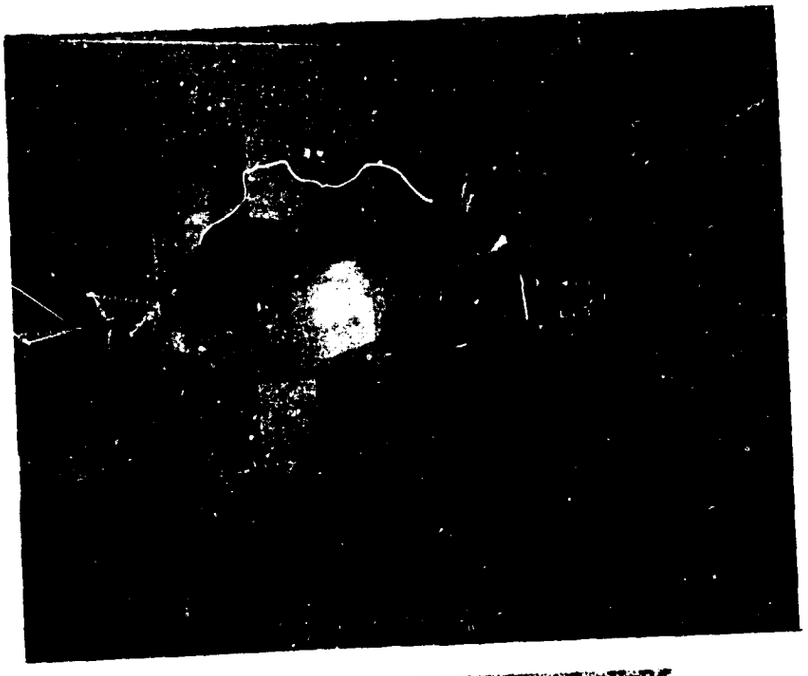


[redacted]107E23V7R6

[redacted]

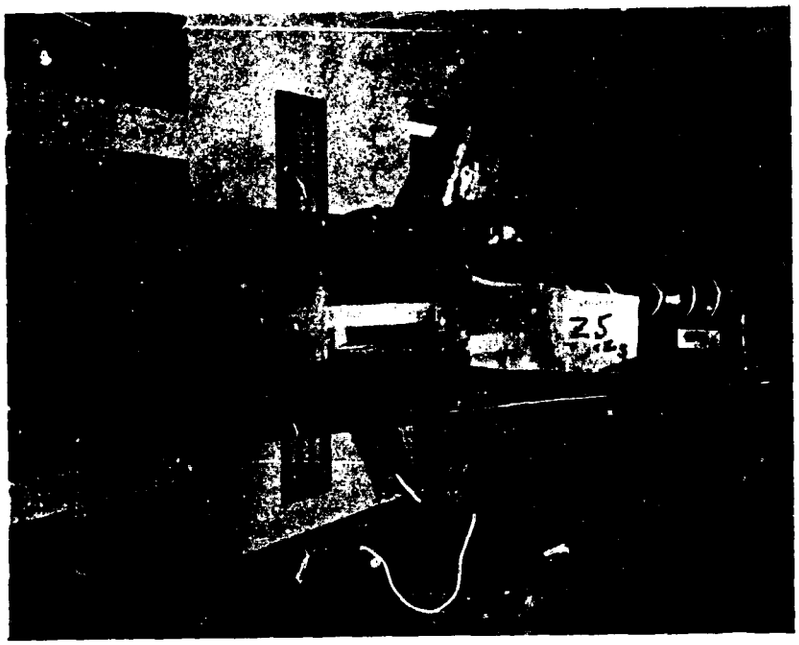


[redacted]



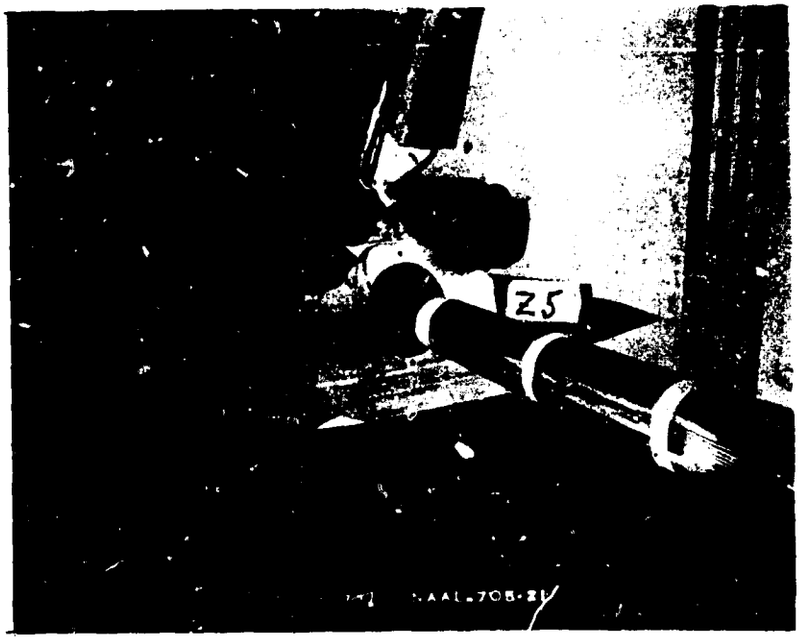
[redacted]

[redacted]



Configuration: B_{19} C_7 M_4 F_5 W_{107} E_{23} V_7 R_6 Z_5 L_4

[redacted]



i. Configuration: $B_{19}C_7M_4F_5W_{107}E_{23}V_7R_6Z_5$

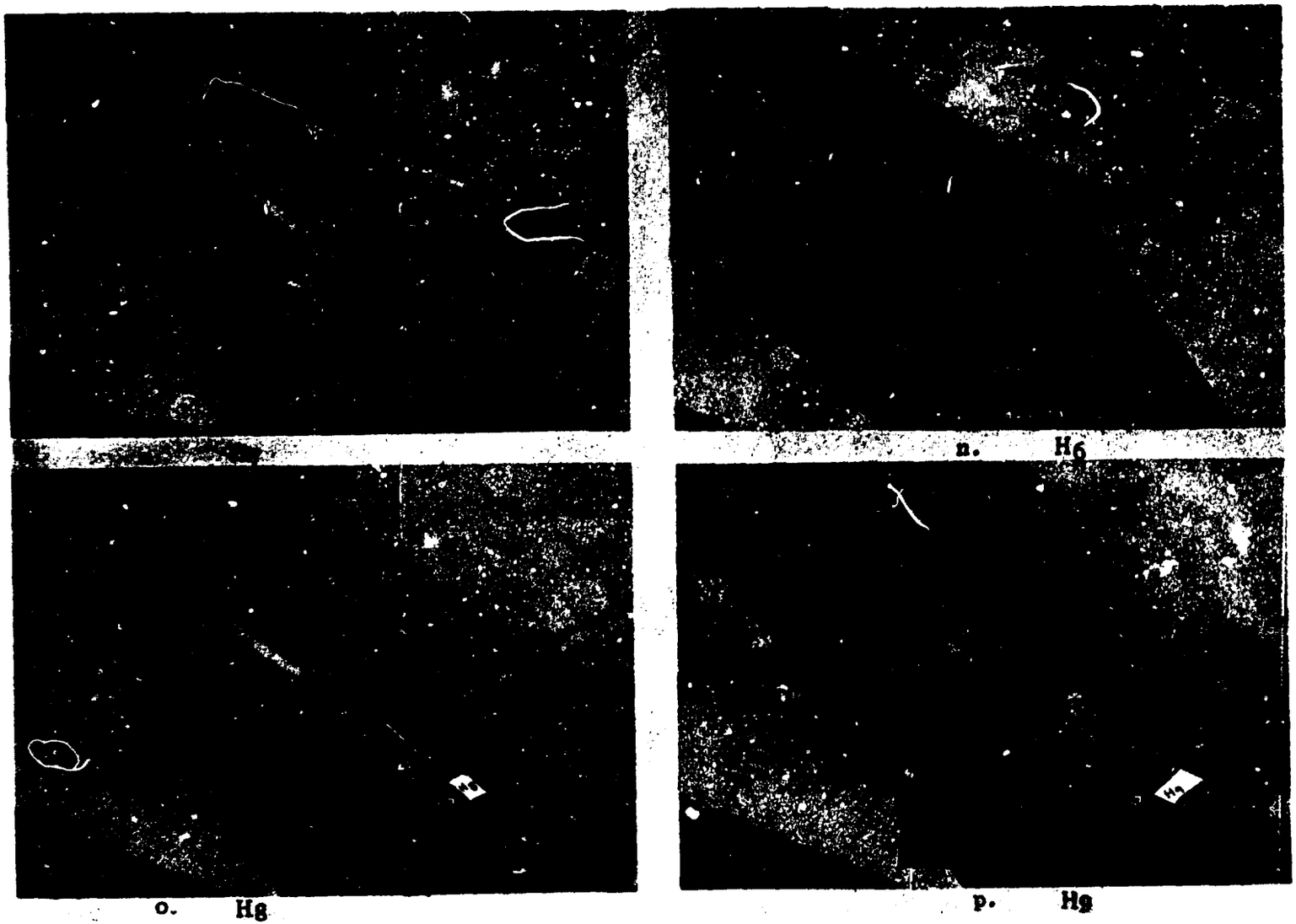
j. Configuration: $B_{19}C_7M_4F_5W_{107}E_{23}V_7R_6Z_4$

Figure 3. - Continued.

k. Configuration: $B_{19}C_7M_4F_5W_{107}E_{23}V_7R_6Z_2Z_3$

[redacted]nfiguration: $B_{19}C_7M_4F_5W_{107}E_{23}V_7K_6Z_4$

Figure 3. - Continued.



n. H_6

o. H_8

p. H_9

Configuration: $B_{19}C_7H\ M_4F_5W_{107}H_{23}V_7R_6X_9$

Figure 3. - Continued.

q. H_{11}

r. H_{10}

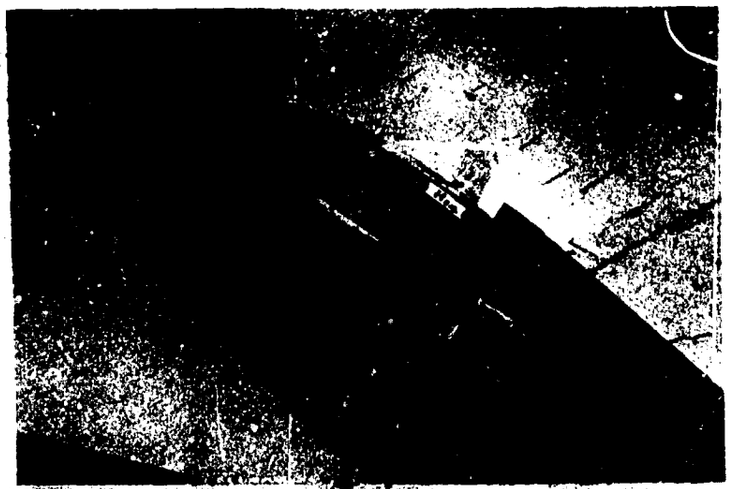
s. H_{12}

t. H_{13}

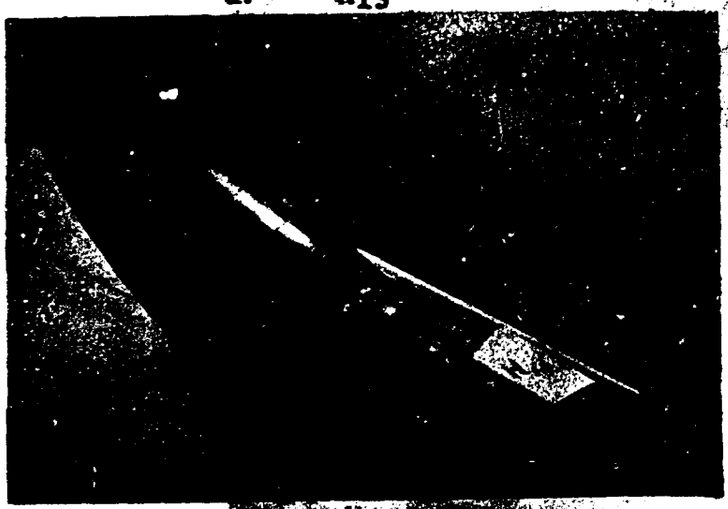
Configuration: $B_{19}C_7H_{-}M_4F_5W_{107}E_{23}V_7R_6X_9$

Figure 3. - Continued.

u. H_{15}



v. H_{16}

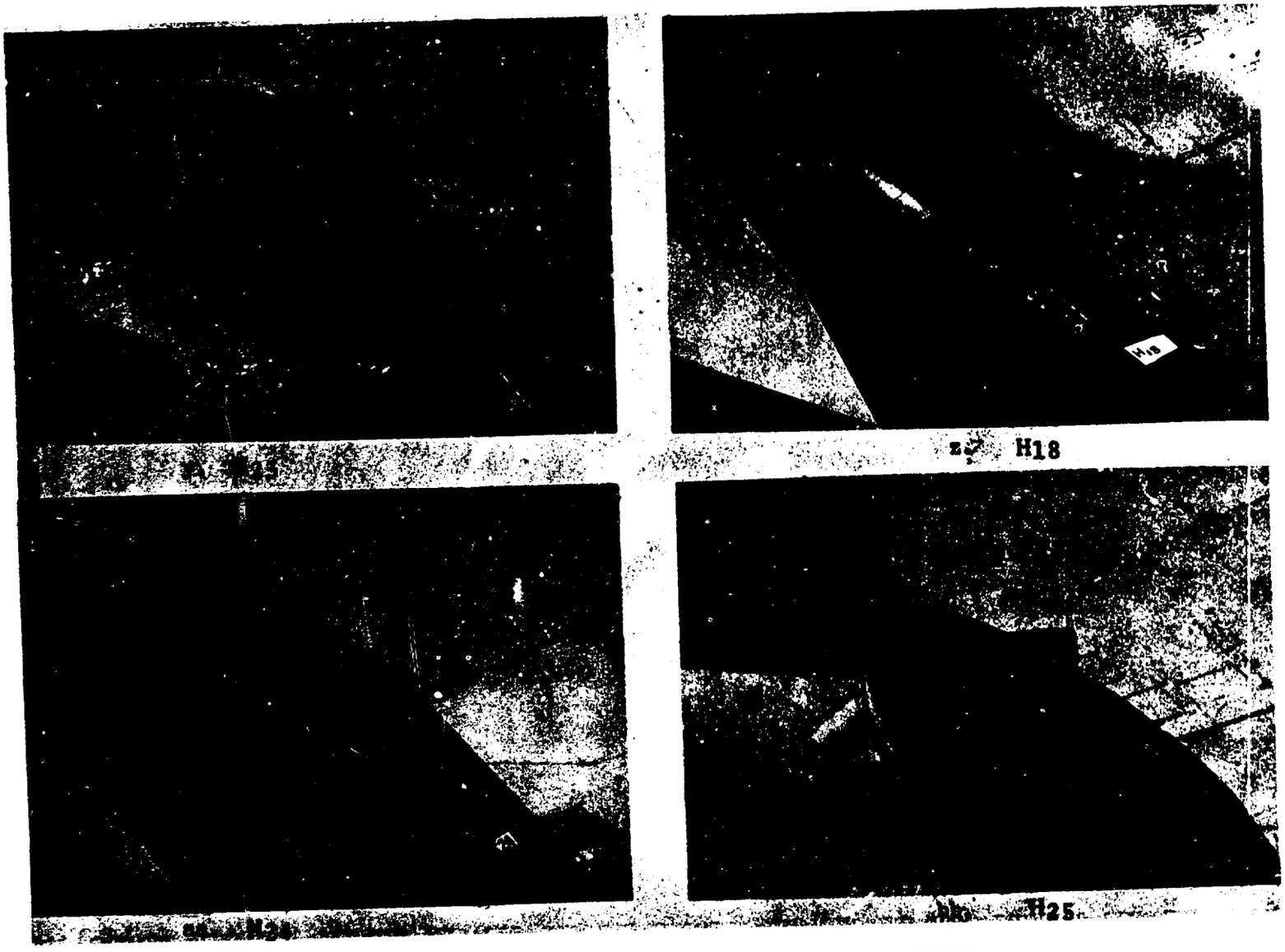


H_{16}

x. H_{17}

Configuration: $B_{19}C_7M_4F_5W_{107}E_{23}V_7R_6X_9$

Figure 3. - Continued.



[redacted] $B_{19}C_7H$ [redacted]

Figure 3. - Concluded

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(IDP102)	□	GA21	B17			X9				
(IDP097)	△	GA21	B17C7			X9				
(IDP092)	◇	GA21	B17C7	F5		X9			-18.000	
(IDP082)	▽	GA21	B17C7	F5	W107E23	X9	.000	.000	-18.000	
(IDP087)	⊲	GA21	B17C7	M4F5	W107E23	X9	.000	.000	-18.000	
(IDP009)	⊳	GA21	B17C7	M4F5	W107E23V7R6	X9	.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

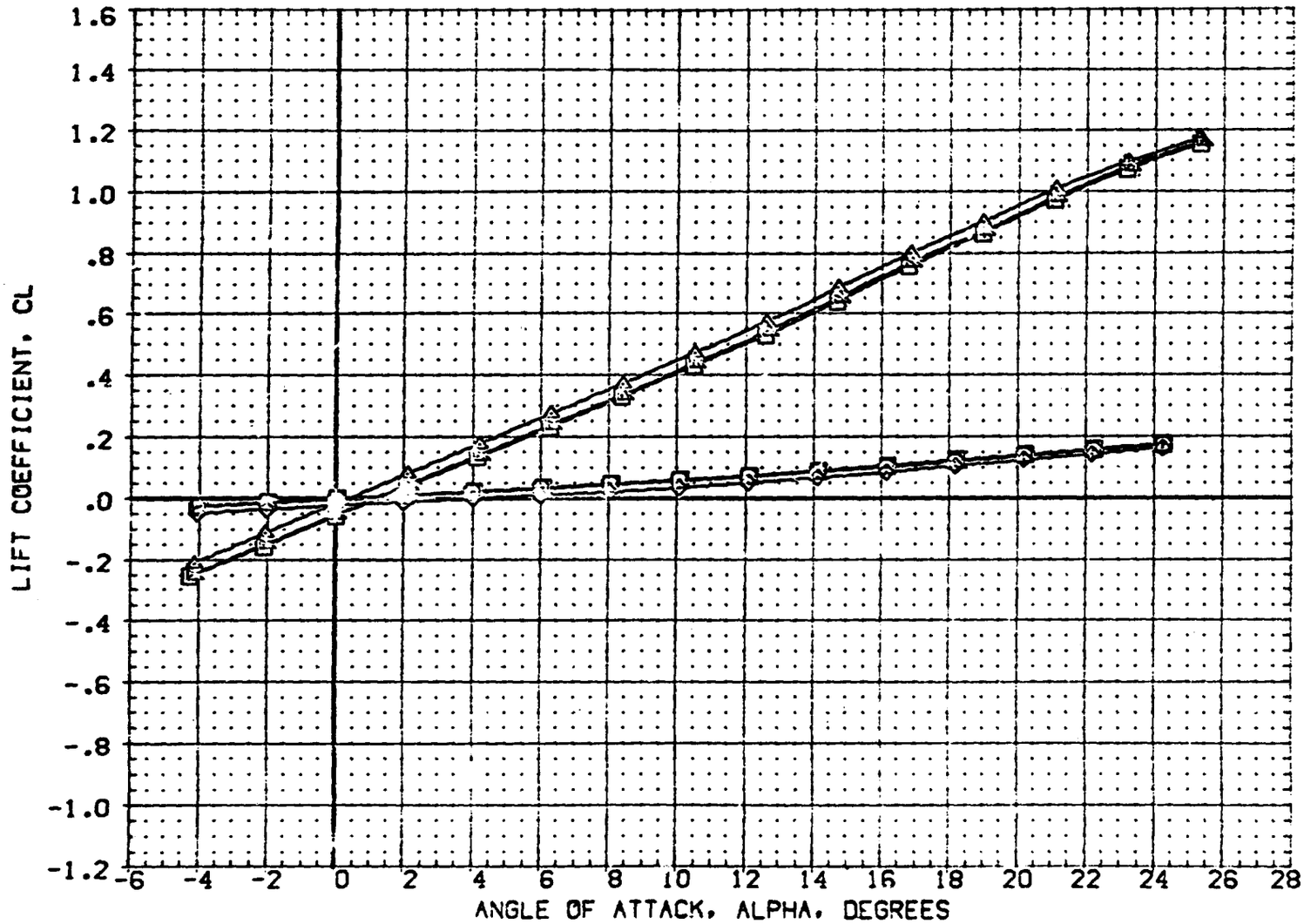


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					ELEVON	AILRON	BOFLAP	SPOBRK
(1DP102)	□	0A21	B17			X9				
(1DP097)	◇	0A21	B17C7			X9				
(1DP082)	△	0A21	B17C7	F5		X9			-18.000	
(1DP082)	▽	0A21	B17C7	F5	W107E23	X9	.000	.000	-18.000	
(1DP097)	◁	CA21	B17C7	M4F5	W107E23	X9	.000	.000	-18.000	.000
(1DPC39)	▷	0A21	B17C7	M4F5	W107E23V7RBX9					

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.9974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

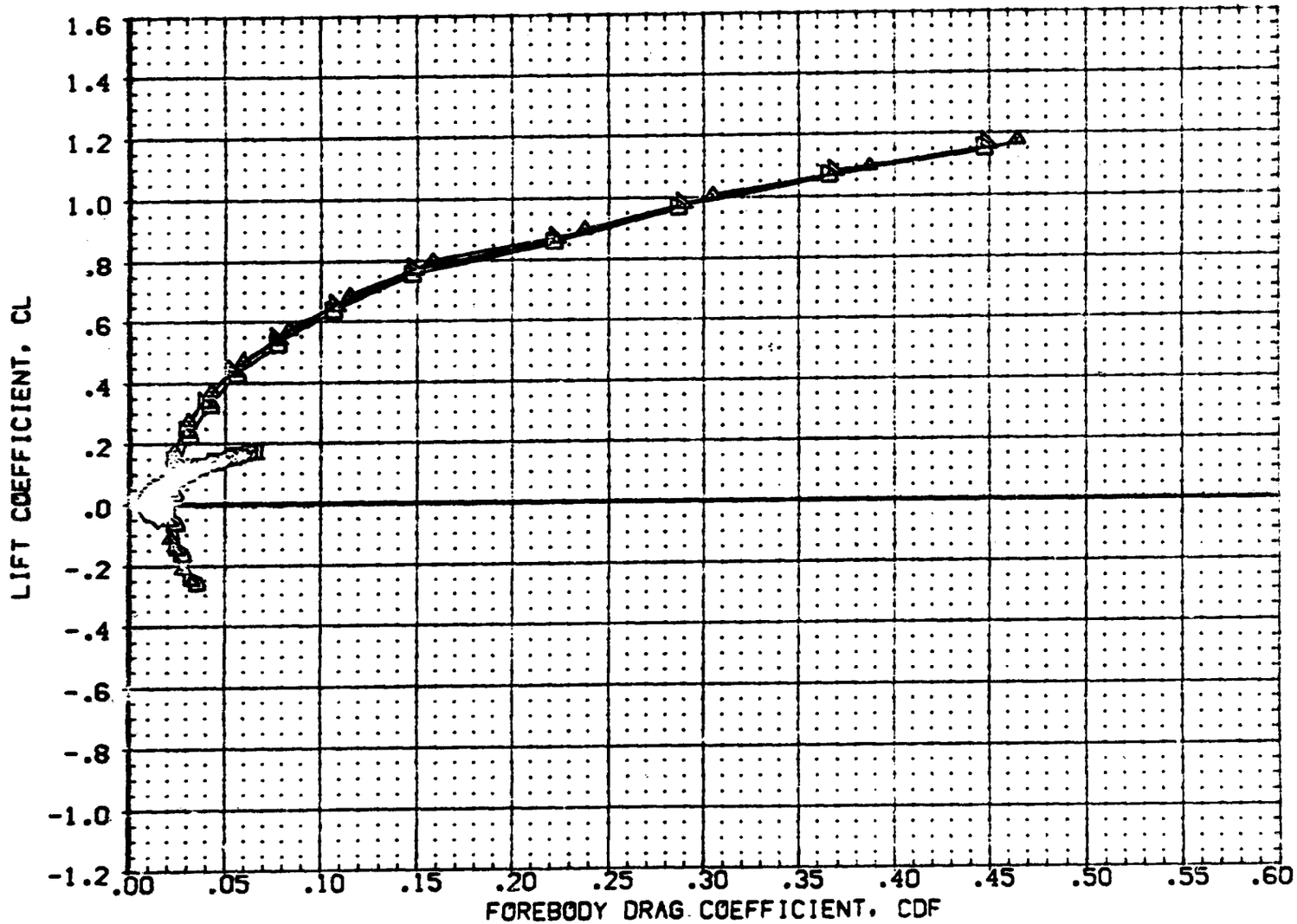


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(IDP102)	□	CA21	B17		X9				
(IDP097)	△	CA21	B17C7		X9			-18.000	
(IDP092)	◇	CA21	B17C7	F5	X9	.000	.000	-18.000	
(IDP082)	○	CA21	B17C7	F5	W107E23 X9	.000	.000	-18.000	
(IDP087)	▽	CA21	B17C7	M4F5	W107E23 X9	.000	.000	-18.000	.000
(IDP089)	⊲	CA21	B17C7	M4F5	W107E23V7R6X9				

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

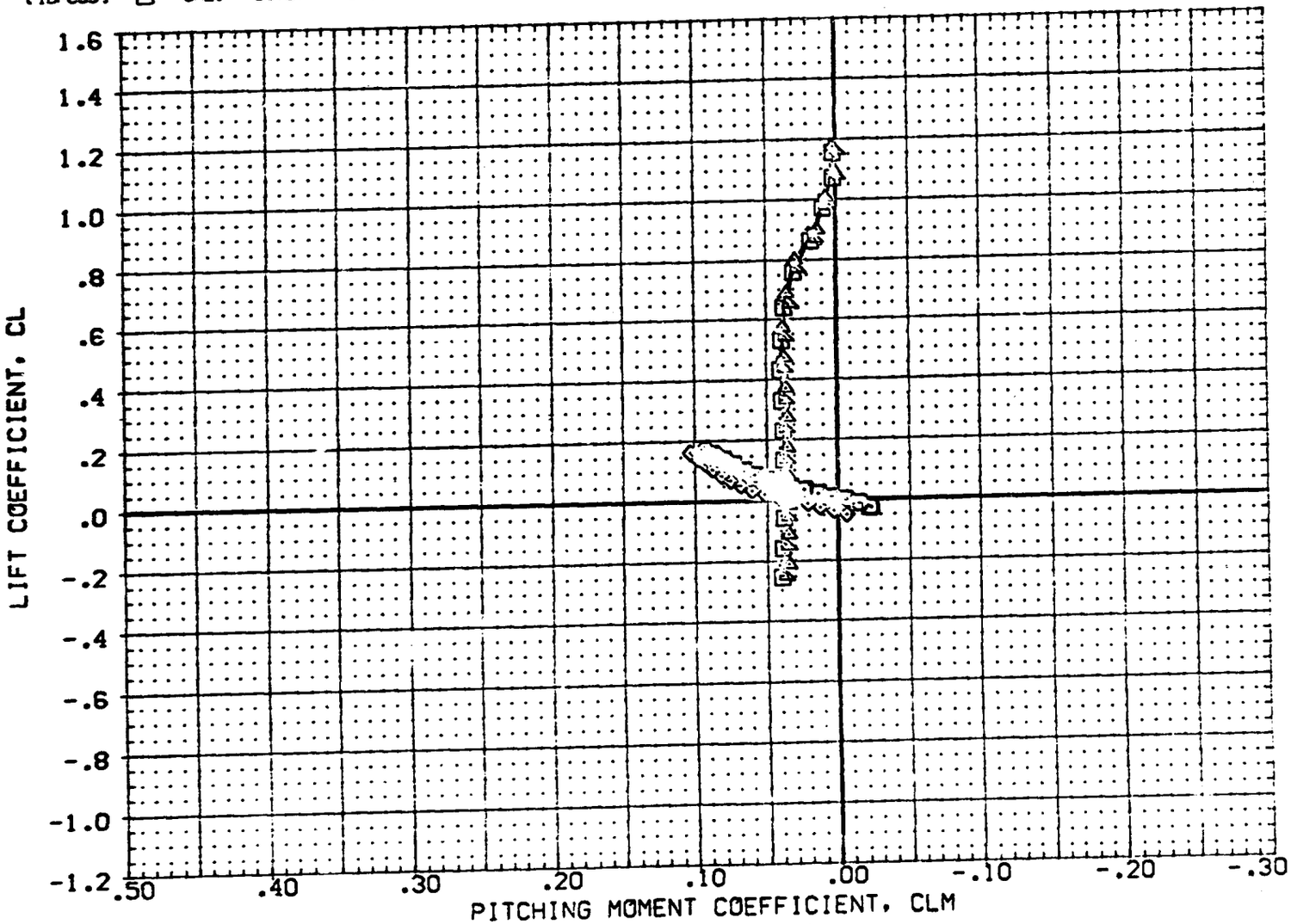


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					ELEVON	AILRON	BOFLAP	SPOJRK
[ ]DP102[ ]	□	0A21	B17			X9				
[ ]DP097[ ]	○	0A21	B17C7			X9				
[ ]DP092[ ]	◇	0A21	B17C7	F5		X9			-18.000	
[ ]DP087[ ]	△	0A21	B17C7	F5	V107E23	X9	.000	.000	-18.000	
[ ]DP087[ ]	▽	0A21	B17C7	M4F5	V107E23	X9	.000	.000	-18.000	
[ ]DP099[ ]	◁	0A21	B17C7	M4F5	V107E23V7R6X9		.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

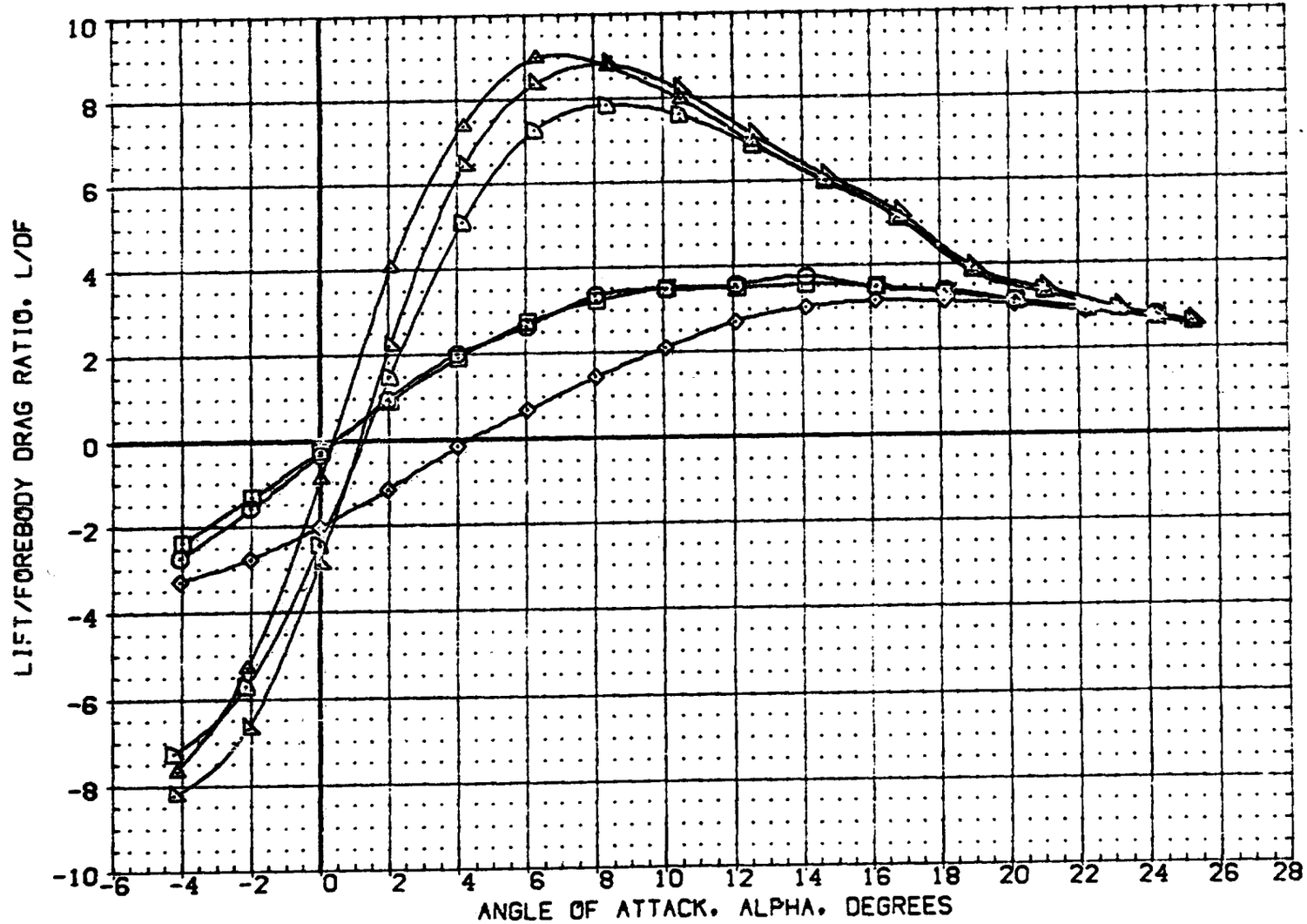


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

[A]MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(IDP102)	□	CA2:	9:7		X9				
(IDP[illegible])		CA2:	8:7C7		X9				
(IDP[illegible])		CA2:	8:7C7	F5	X9			-18.000	
(IDP082)	◇	CA2:	8:7C7	F5	V107E23 X9	.000	.000	-18.000	
(IDP087)	△	CA2:	8:7C7	M4F5	V107E23 X9	.000	.000	-18.000	.000
(IDP009)	▽	CA2:	8:7C7	M4F5	V107E23V7R6X9	.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2050	INCHES
SCALE	.0405	SCALE

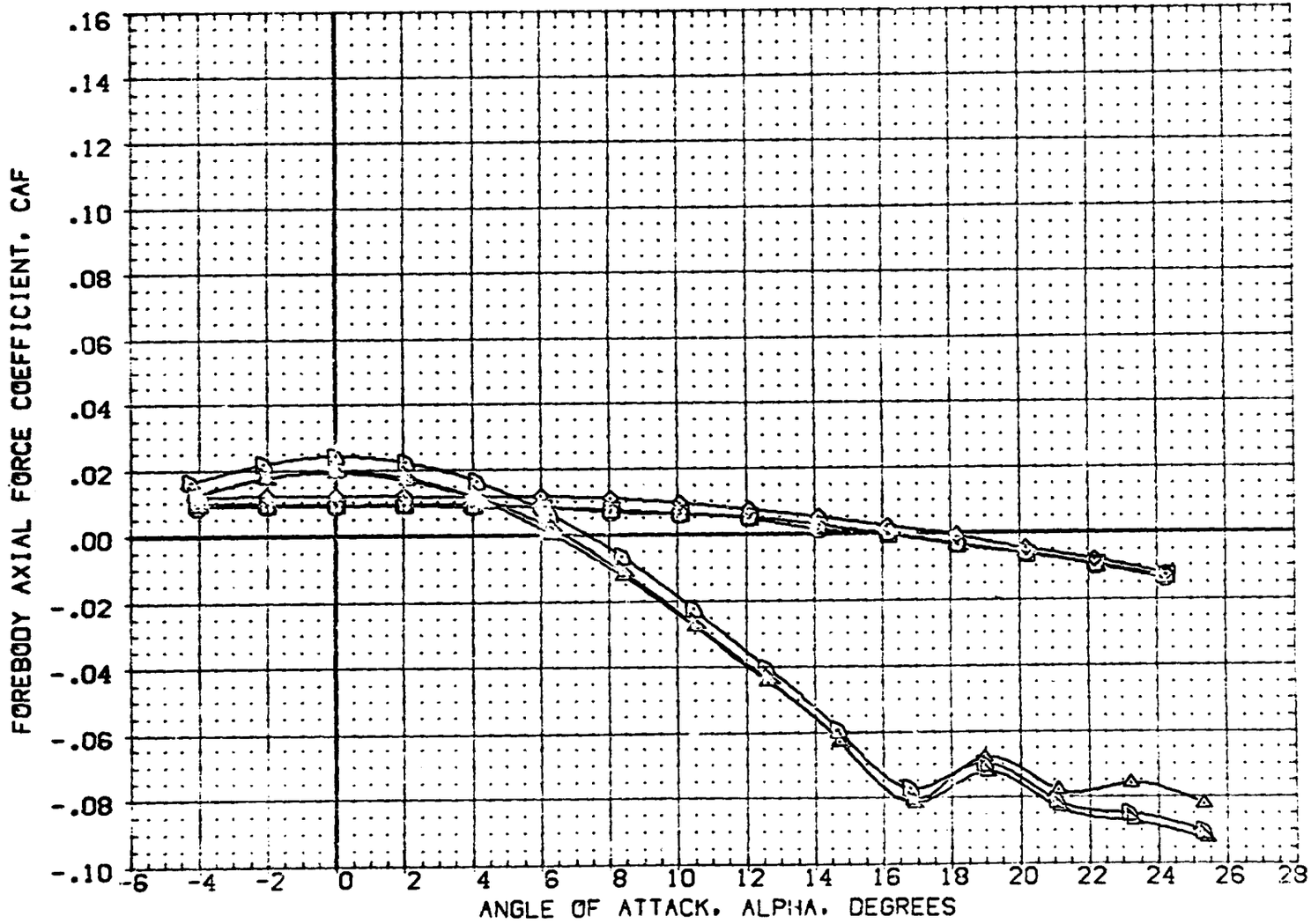


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

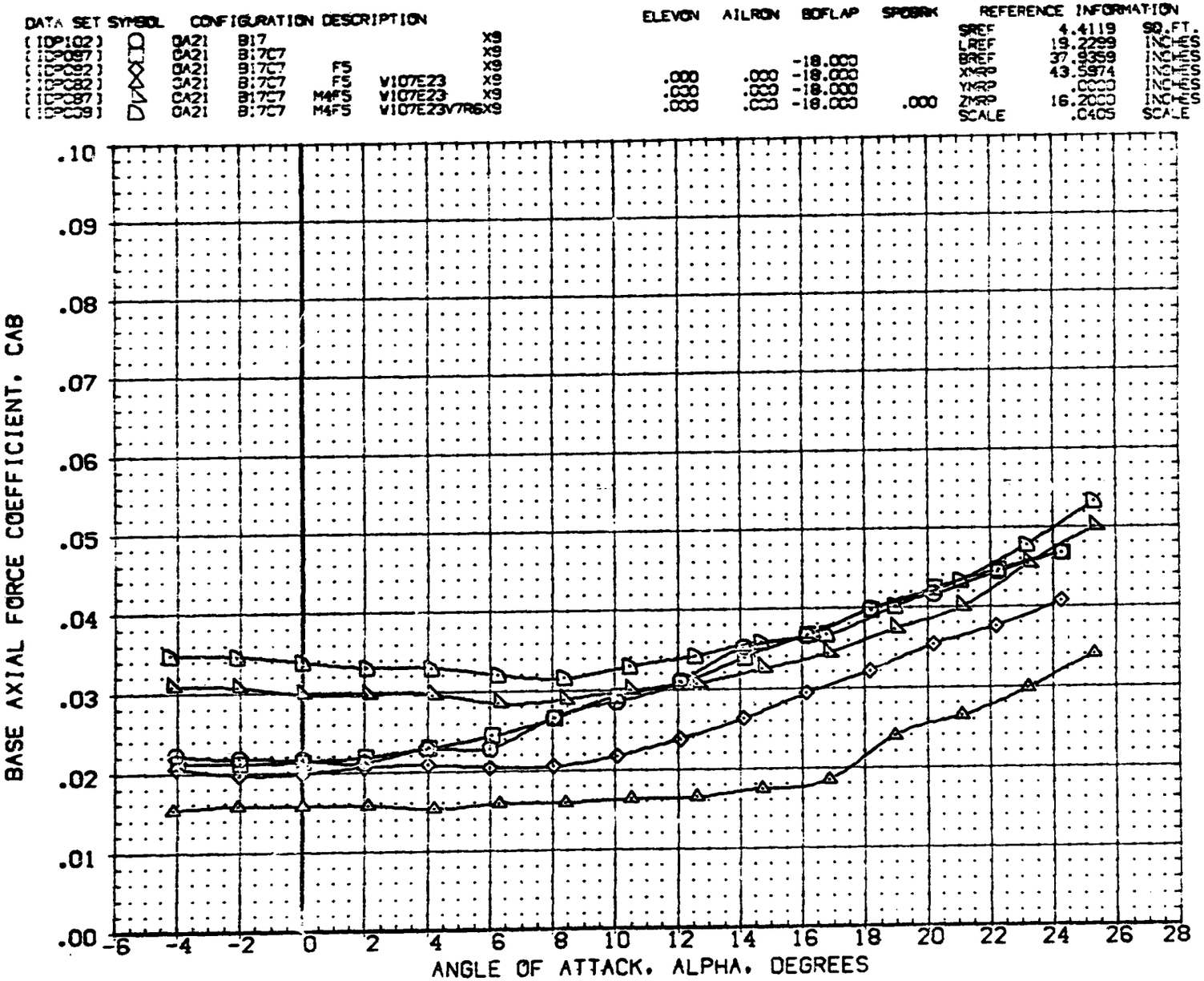


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

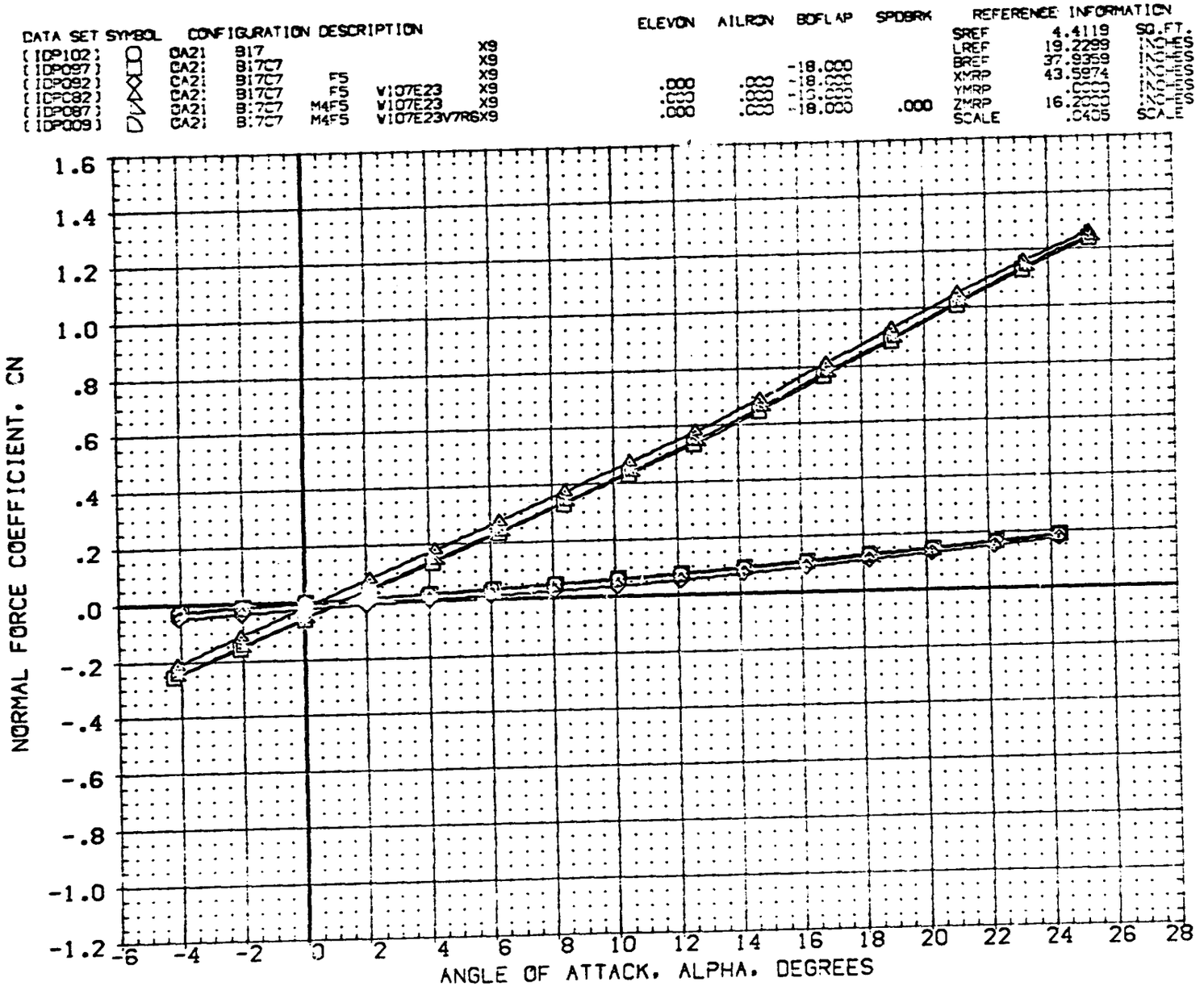


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

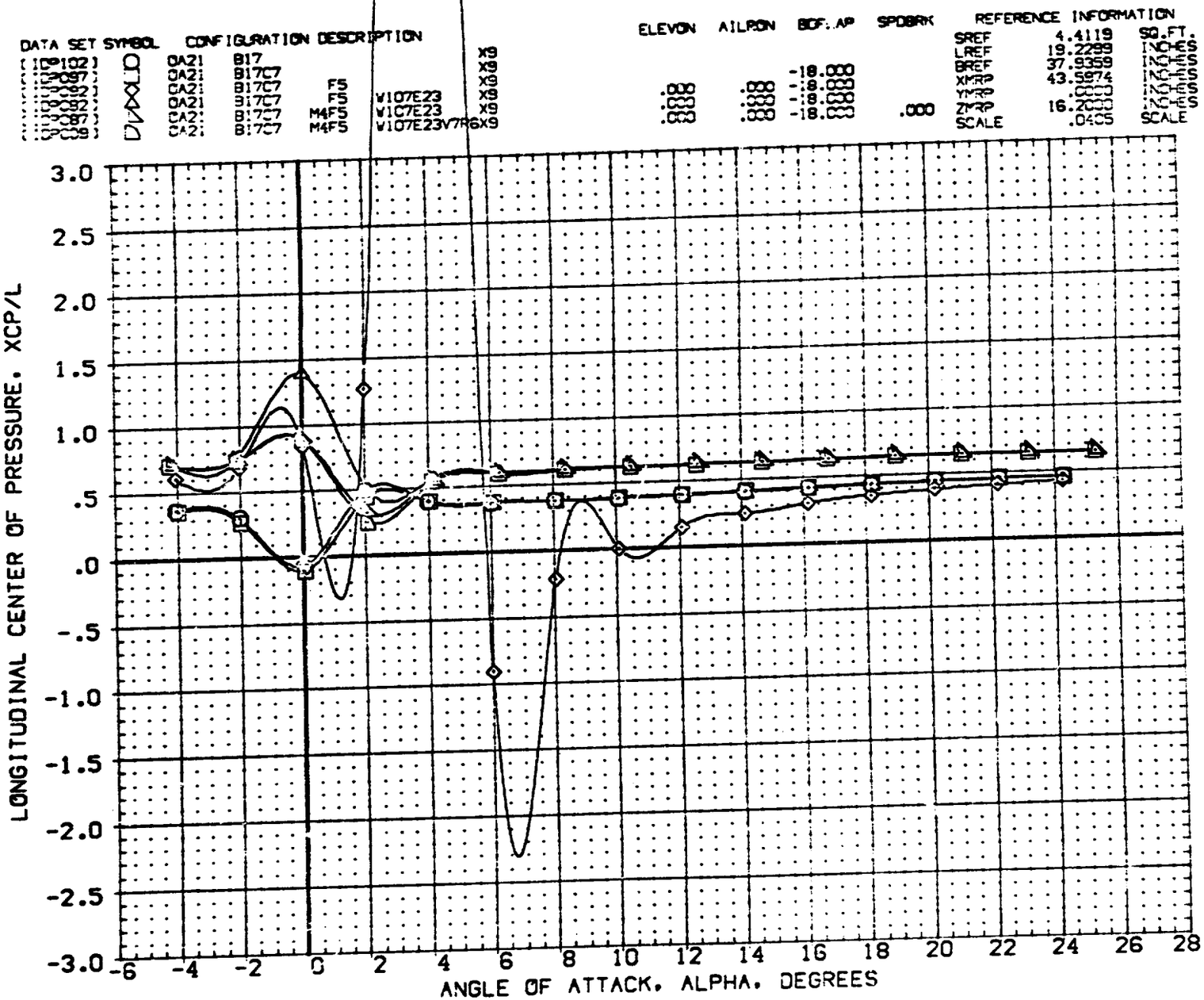


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

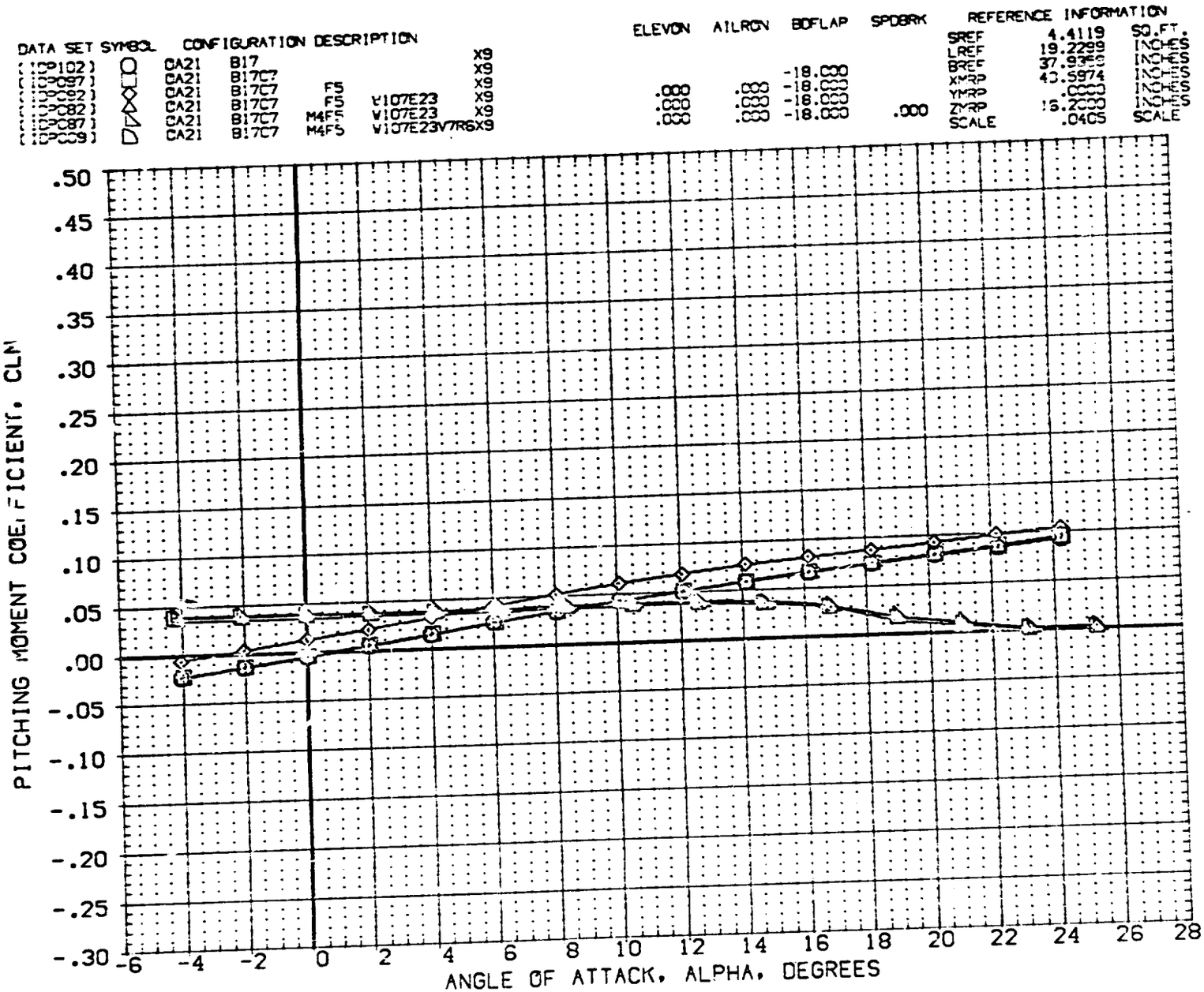


FIGURE 4 LONGITUDINAL CONFIGURATION COMPONENT EFFECTS

(A)MACH = .26

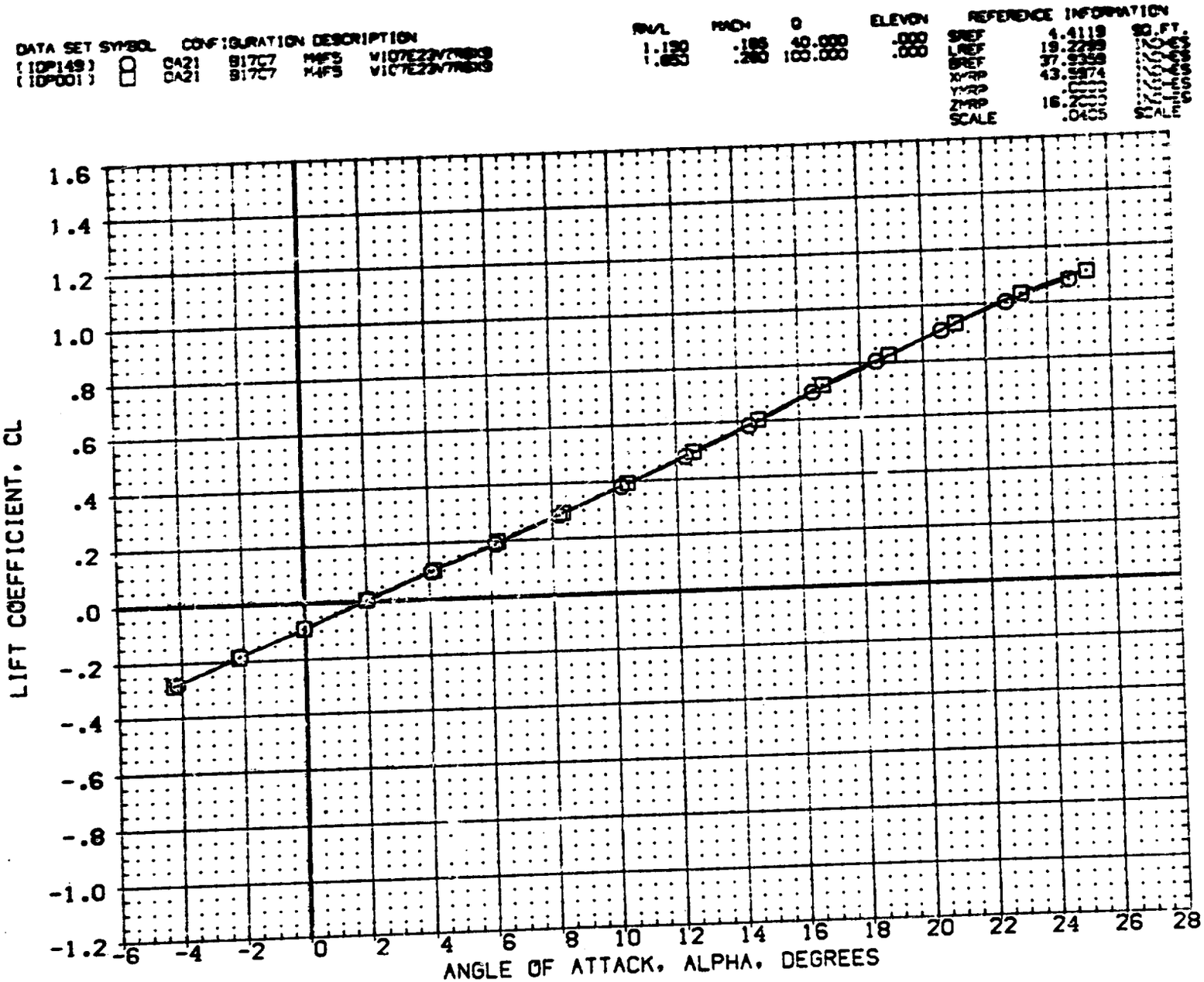


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDP149)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	V107E23V7R6X9

RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

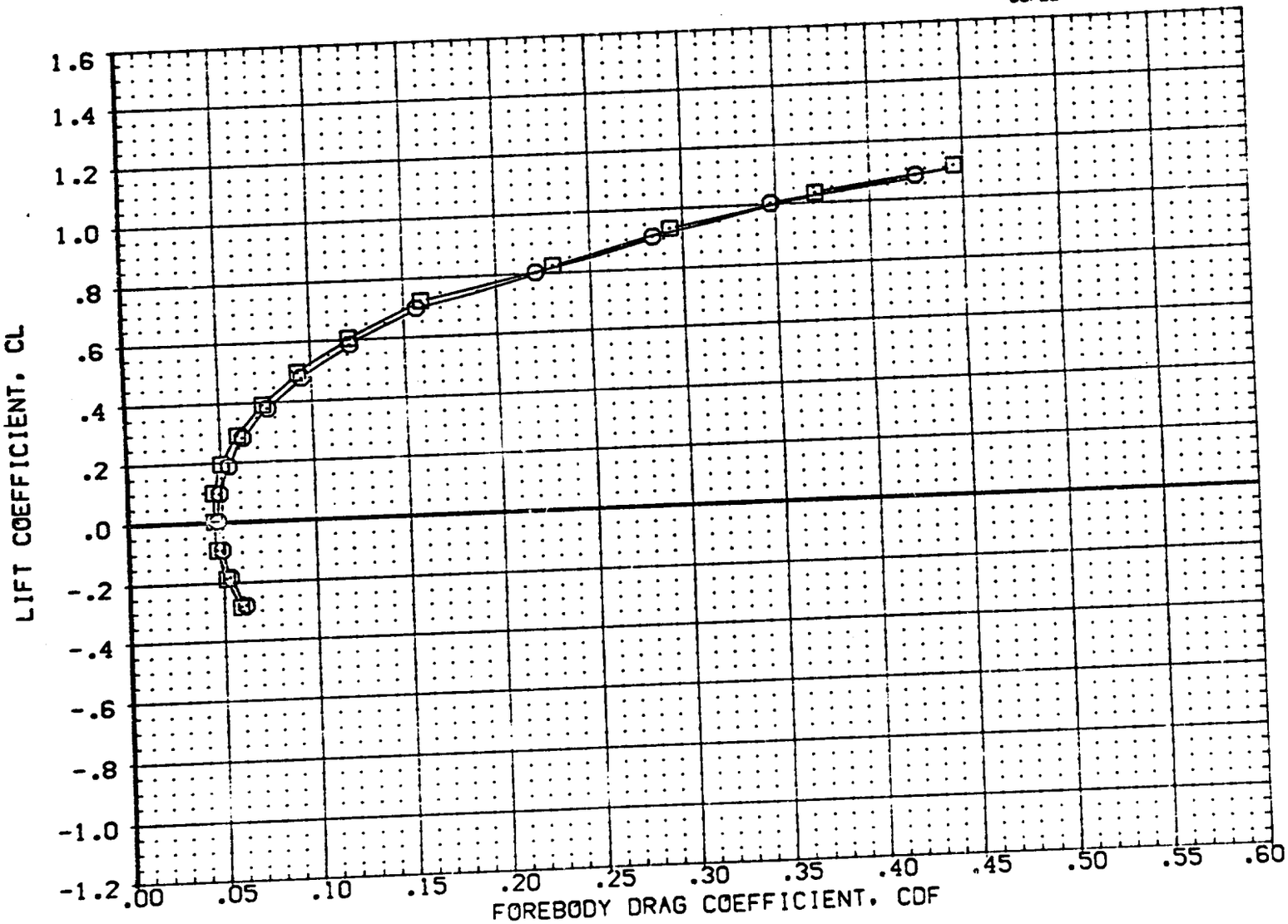


FIGURE 5 REYNOLDS NUMBER EFFECTS

PAGE 11

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP149)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	W107E23V7R6X9

RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

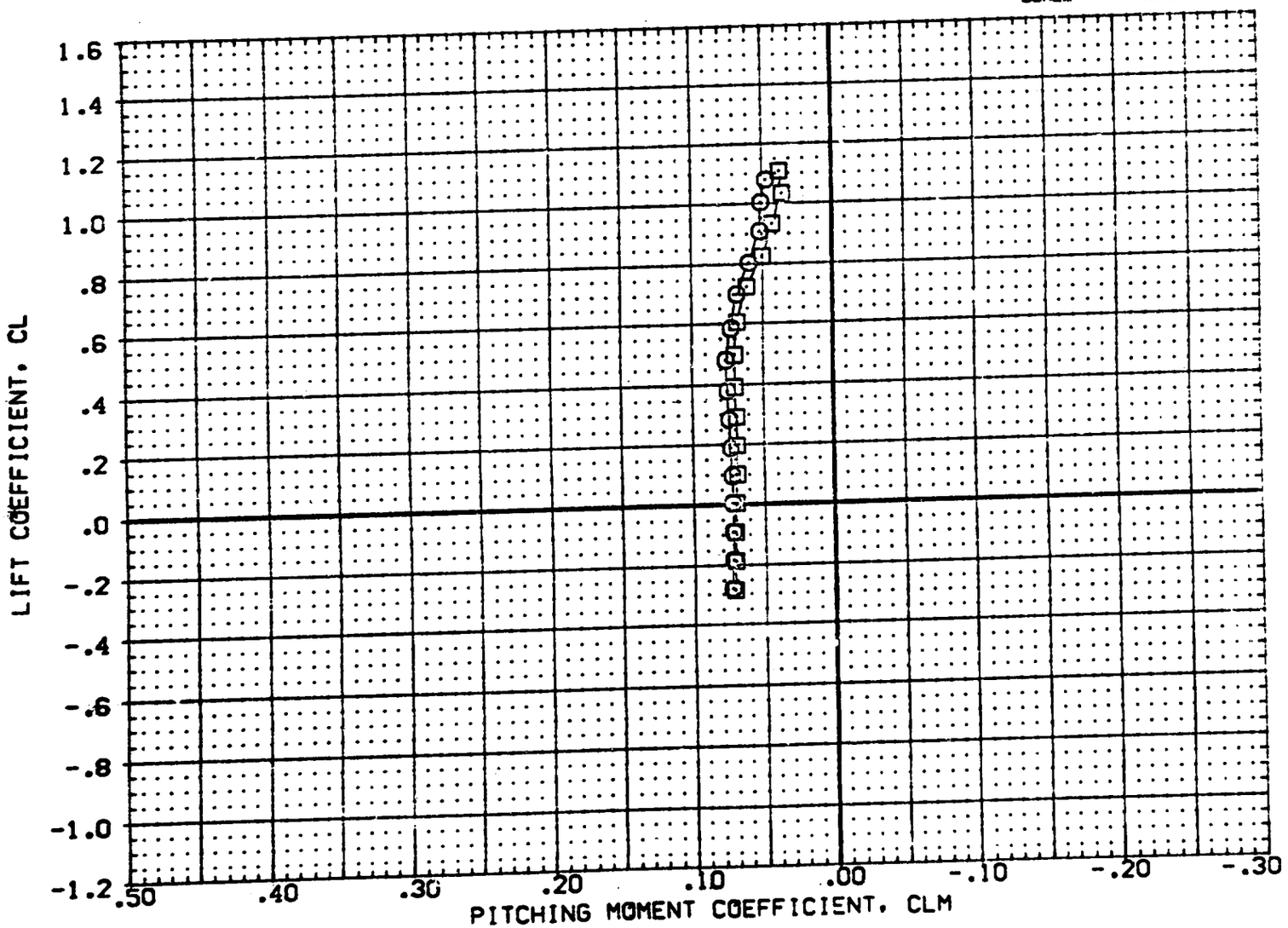


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDP:49) ○	0A21	917C7	M4F5	V107E23V7R6X9	
(IDP001) □	0A21	817C7	M4F5	V107E23V7R6X9	

-RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

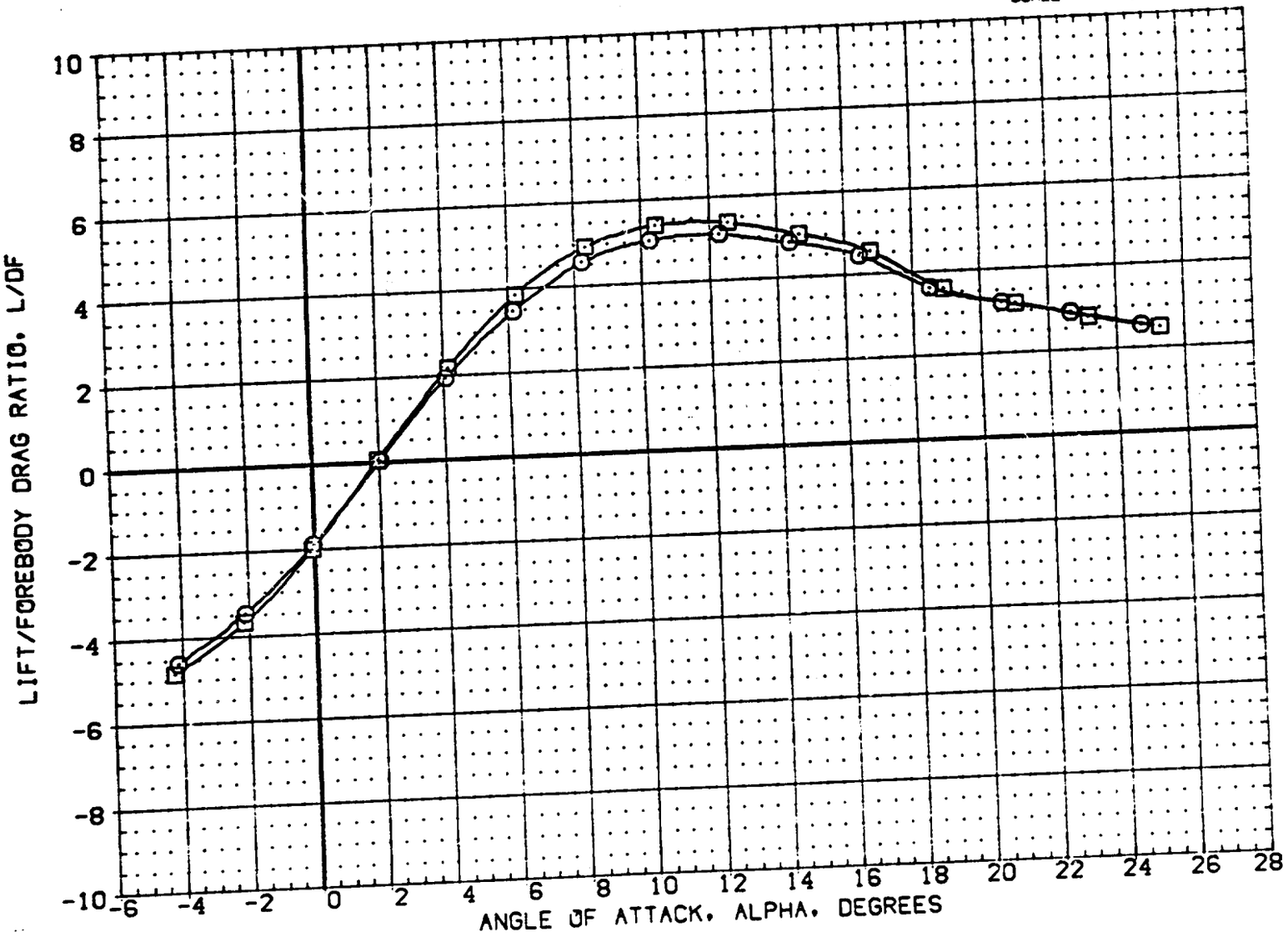


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[WP149]	0A21	B17C7	M4F5	V107E23V7R6X9
[SPOC1]	0A21	B17C7	M4F5	V107E23V7R6X9

TNVL	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

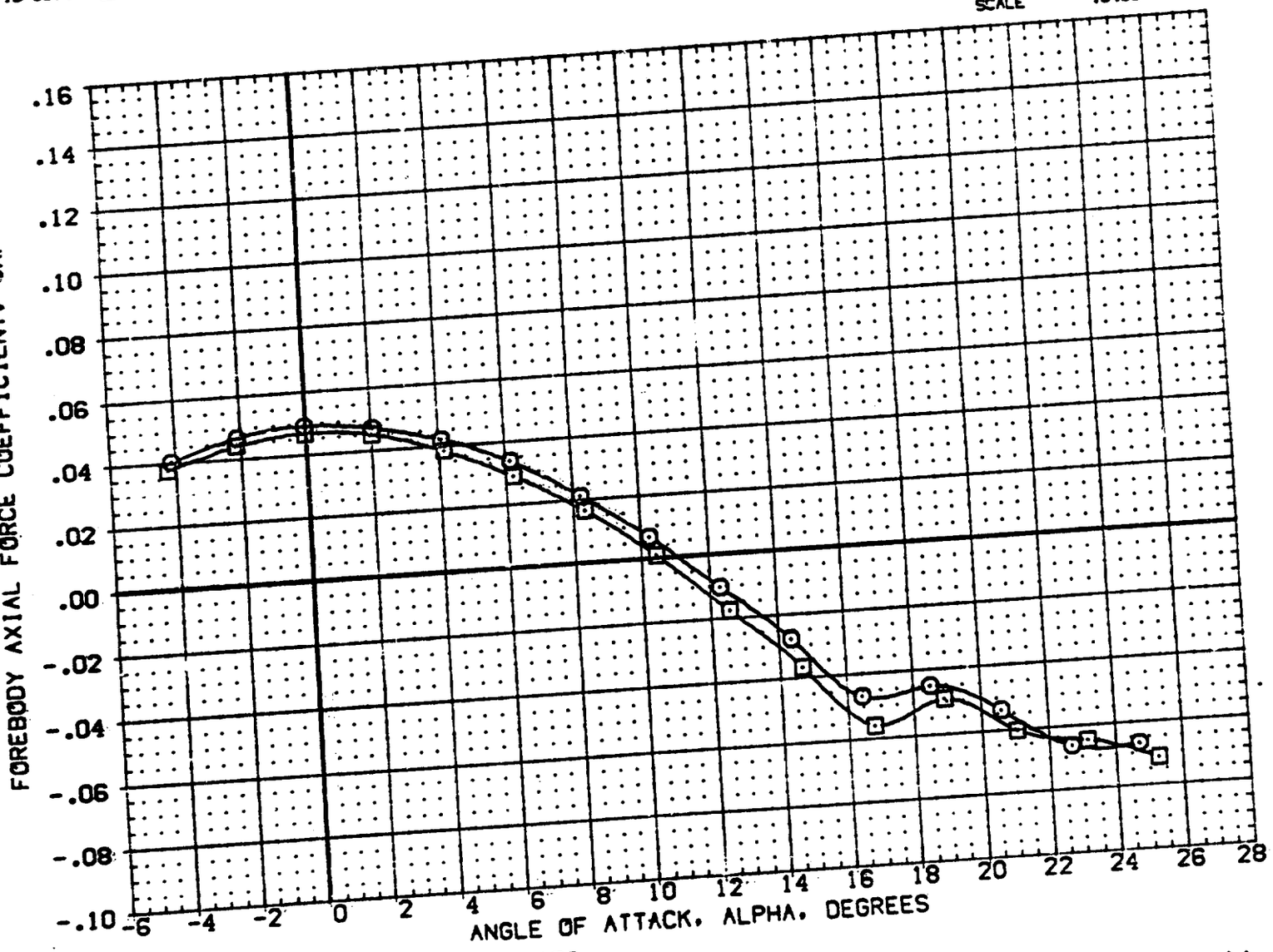


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDP149)	○	CA21	B:7C7	M4F5	W107E23V7R6X9
(IDP001)	□	CA2:	B:7C7	M4F5	W107E23V7R6X9

RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

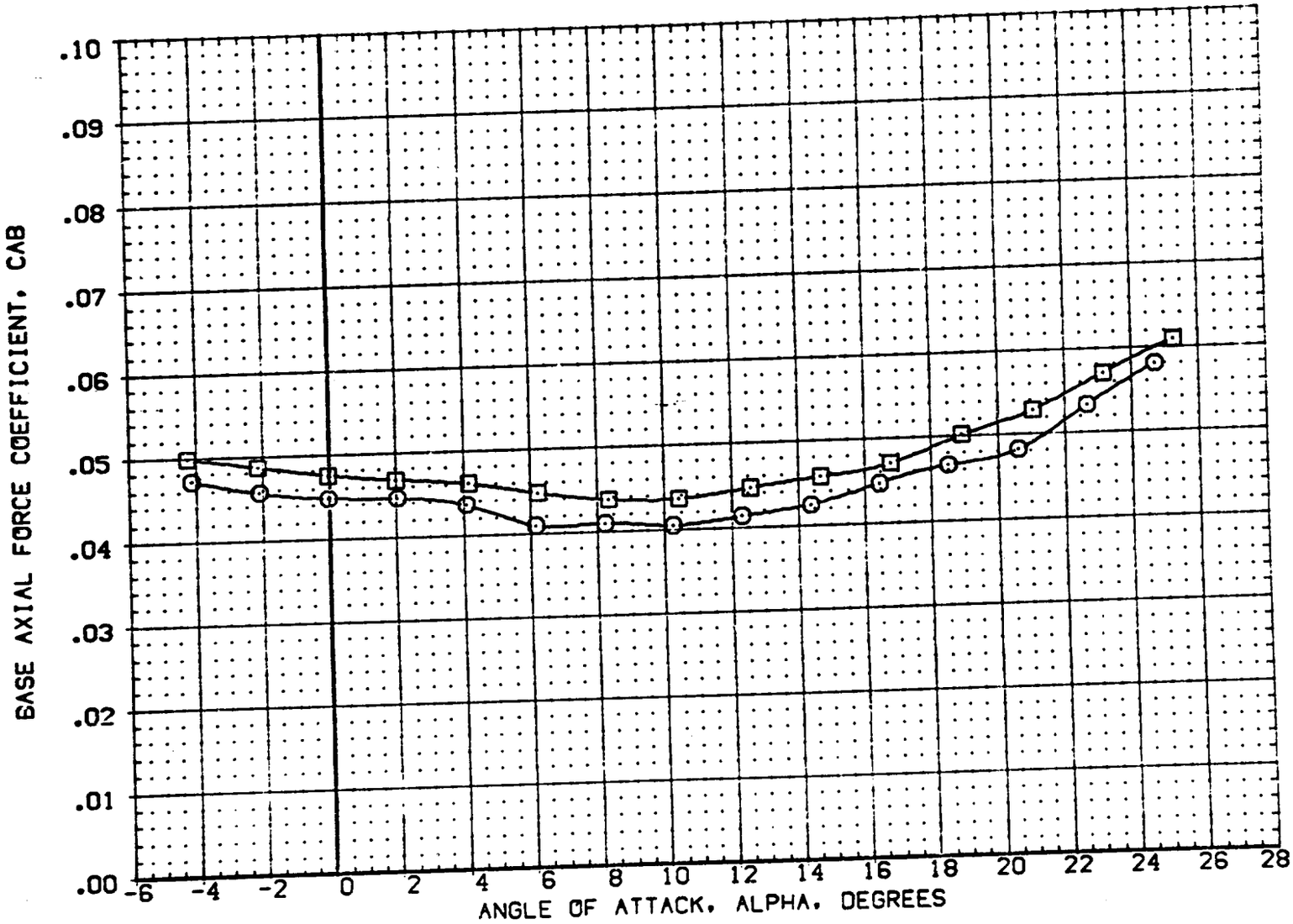


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP149)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	W107E23V7R6X9

RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

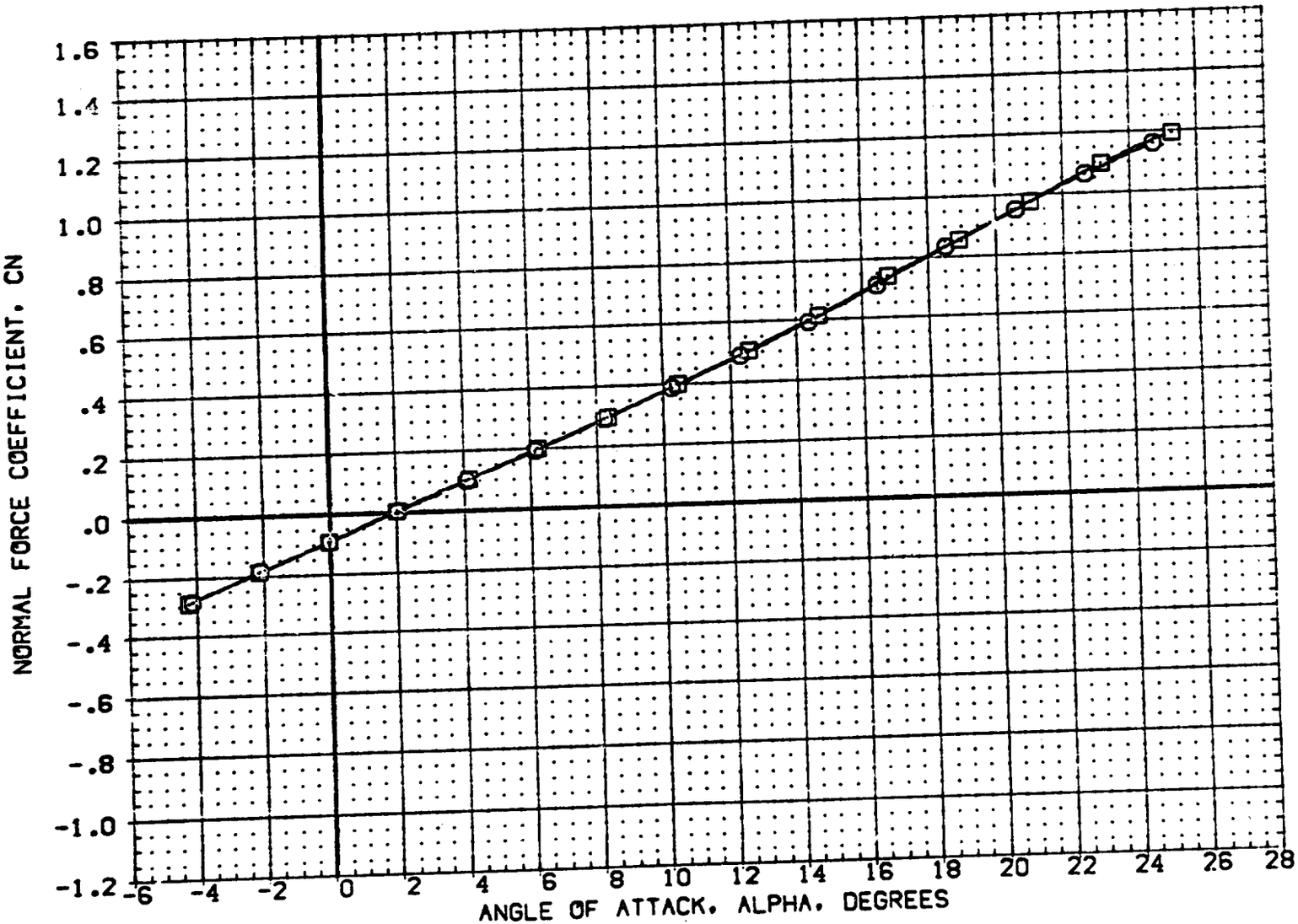


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP149)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC01)	□	0A21	B17C7	M4F5	W107E23V7R6X9

RN/L	MACH	Q	ELEVON
1.150	.165	40.000	.000
1.850	.260	100.000	.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040S	SCALE

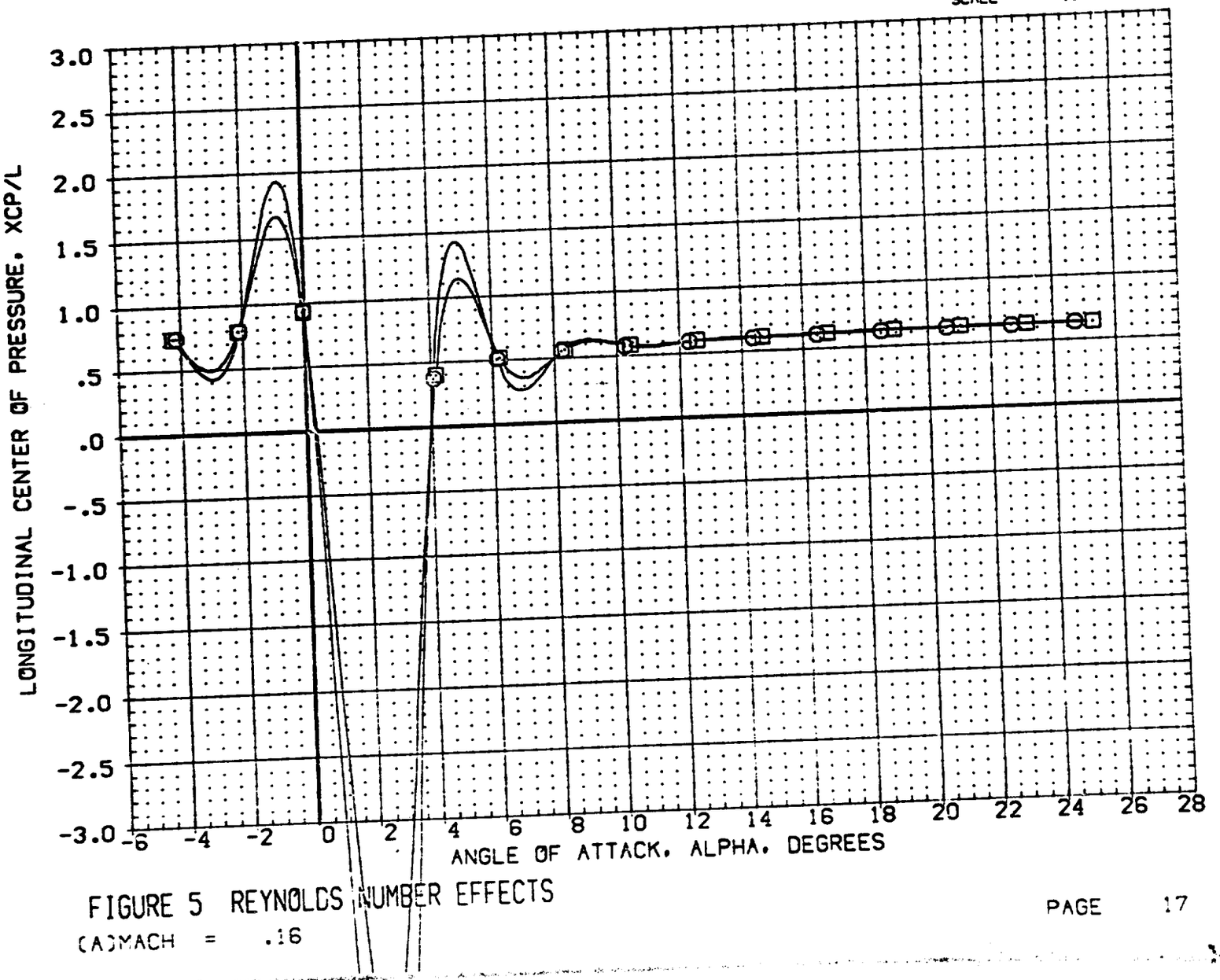


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				RN/L	MACH	Q	ELEVON
[ ]DP149[ ]	CA21	B17C7	M4F5	V107E23V7R8X9	1.150	.165	40.000	.000
[ ]DPC01[ ]	CA21	B17C7	M4F5	V107E23V7R6X9	1.850	.260	100.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9385	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

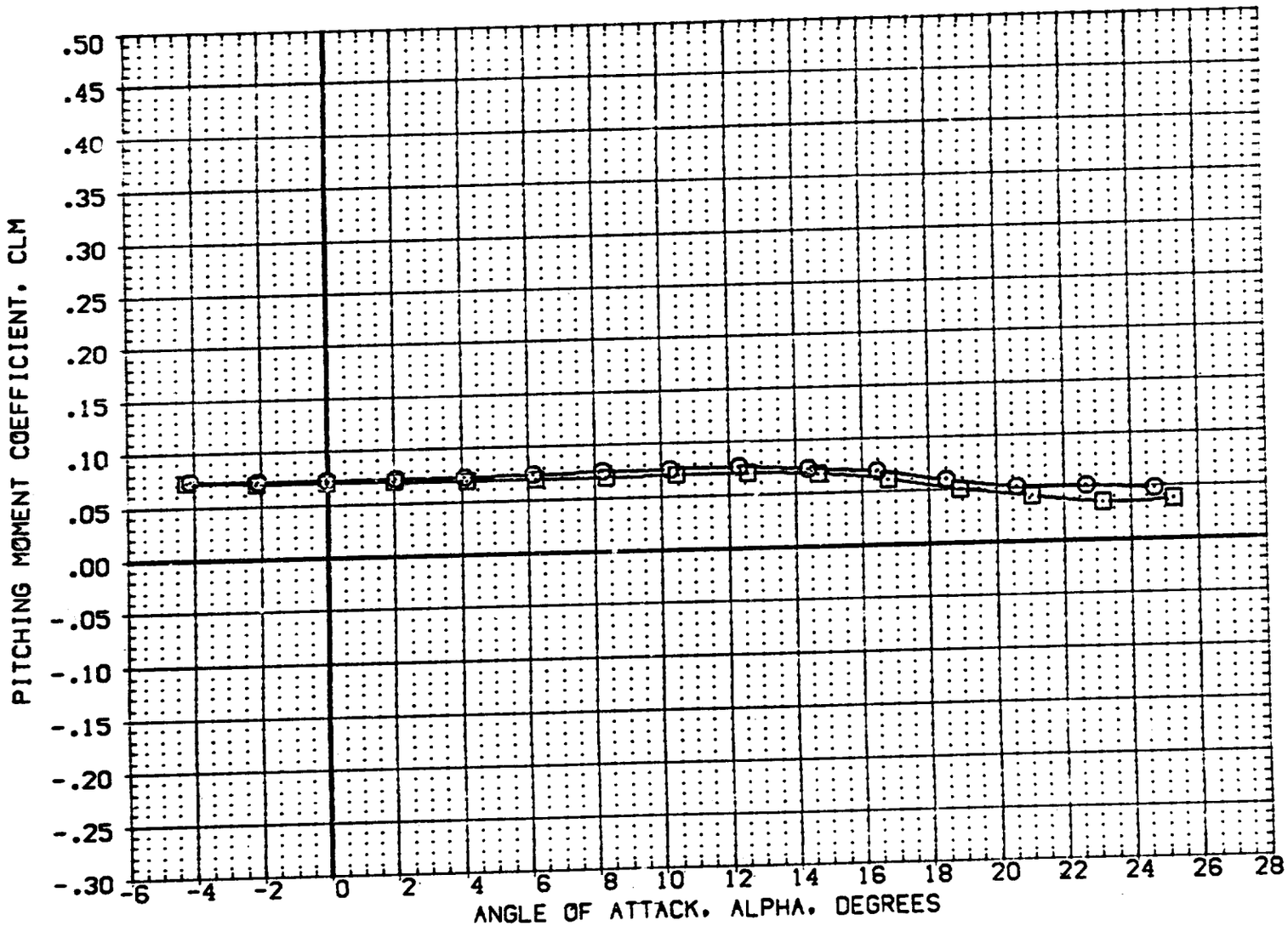


FIGURE 5 REYNOLDS NUMBER EFFECTS

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
[illegible]		0A21	B17C7	M4F5	W107E23V7R6X9	
[illegible]		0A21	B17C7	M4F5	W107E23V7R6X9	
[illegible]		CA21	B17C7	M4F5	W107E23V7R6X9	
[illegible]		CA21	B17C7	M4F5	W107E23V7R6X9	
[illegible]		CA21	B17C7	M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

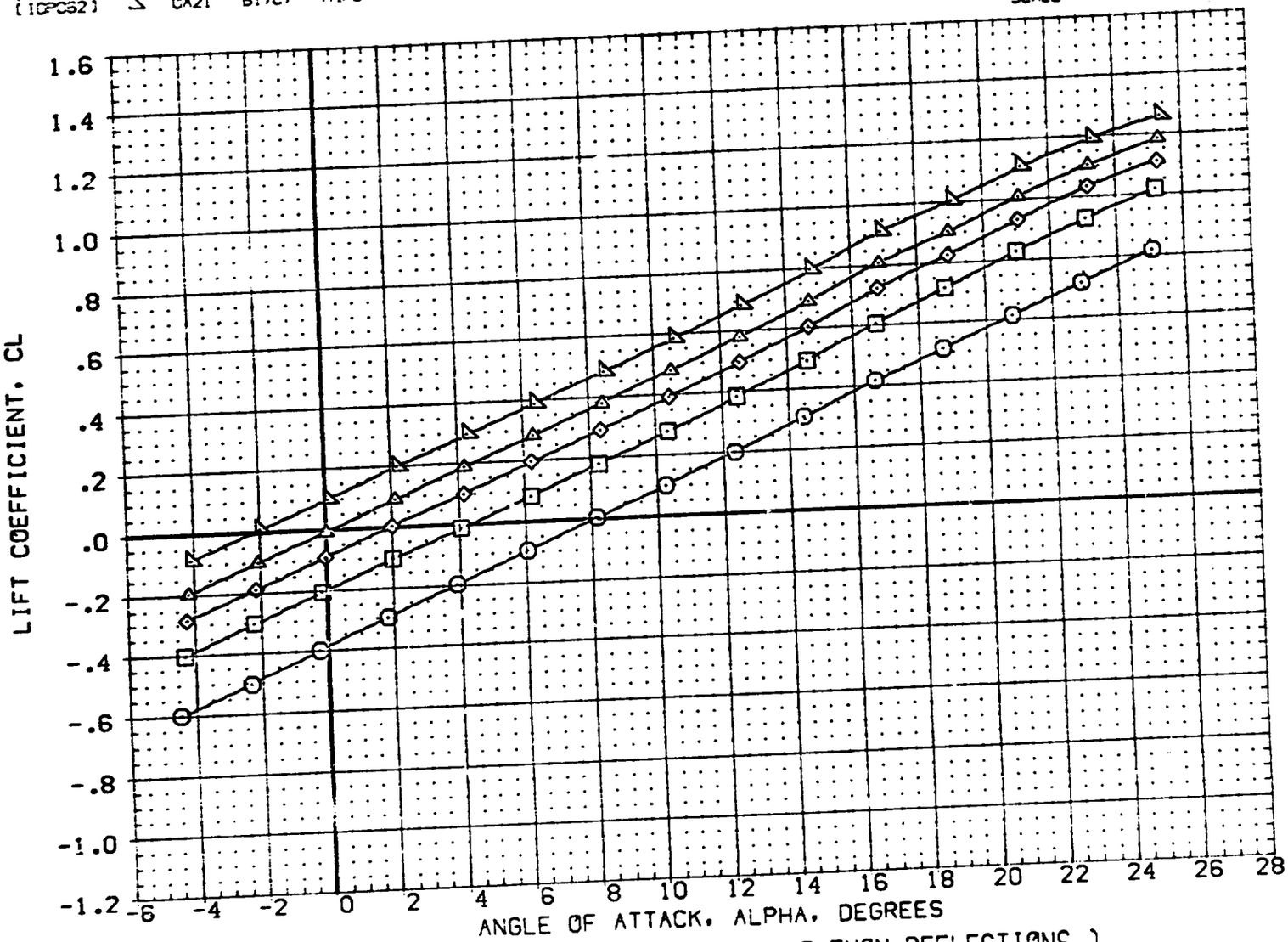


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION					ELEVON	AILRON	BOFLAP	SPOBRK
(DP065)		0A21	B17C7	M4F5	V107E23V7R6X9	-15.000	.000	-18.000	55.000
(DP064)		0A21	B17C7	M4F5	V107E23V7R6X9	-5.000	.000	-18.000	55.000
(DP061)		0A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(DP063)		0A21	B17C7	M4F5	V107E23V7R6X9	5.000	.000	-18.000	55.000
(DP062)		0A21	B17C7	M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

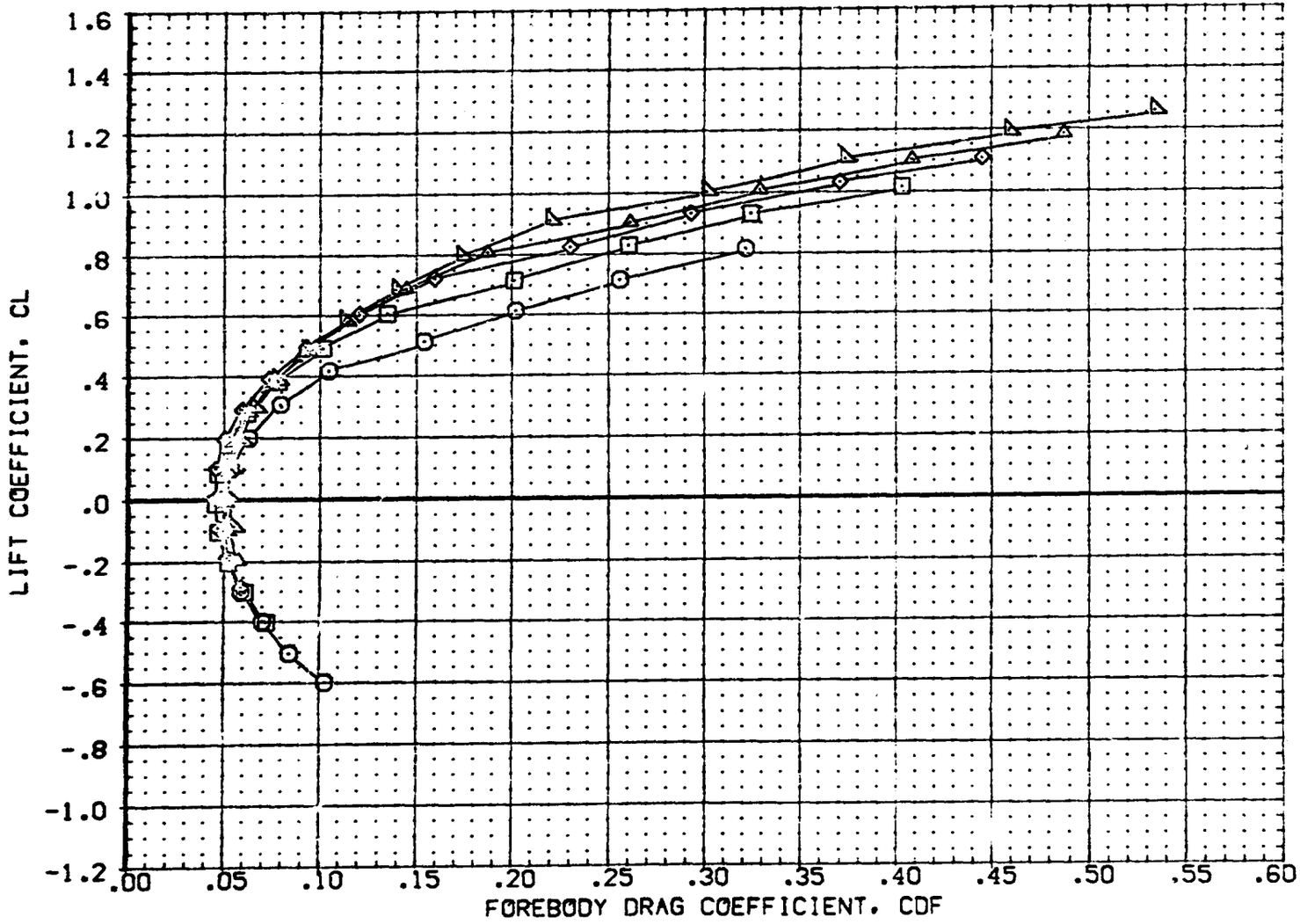


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(DPC65)	○	CA21	B17C7	M4FS	W107E23V7R6X9
(DPC64)	□	CA21	B17C7	M4FS	W107E23V7R6X9
(DPC01)	⋈	CA21	B17C7	M4FS	W107E23V7R6X9
(DPC61)	◇	CA21	B17C7	M4FS	W107E23V7R6X9
(DPC62)	△	CA21	B17C7	M4FS	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

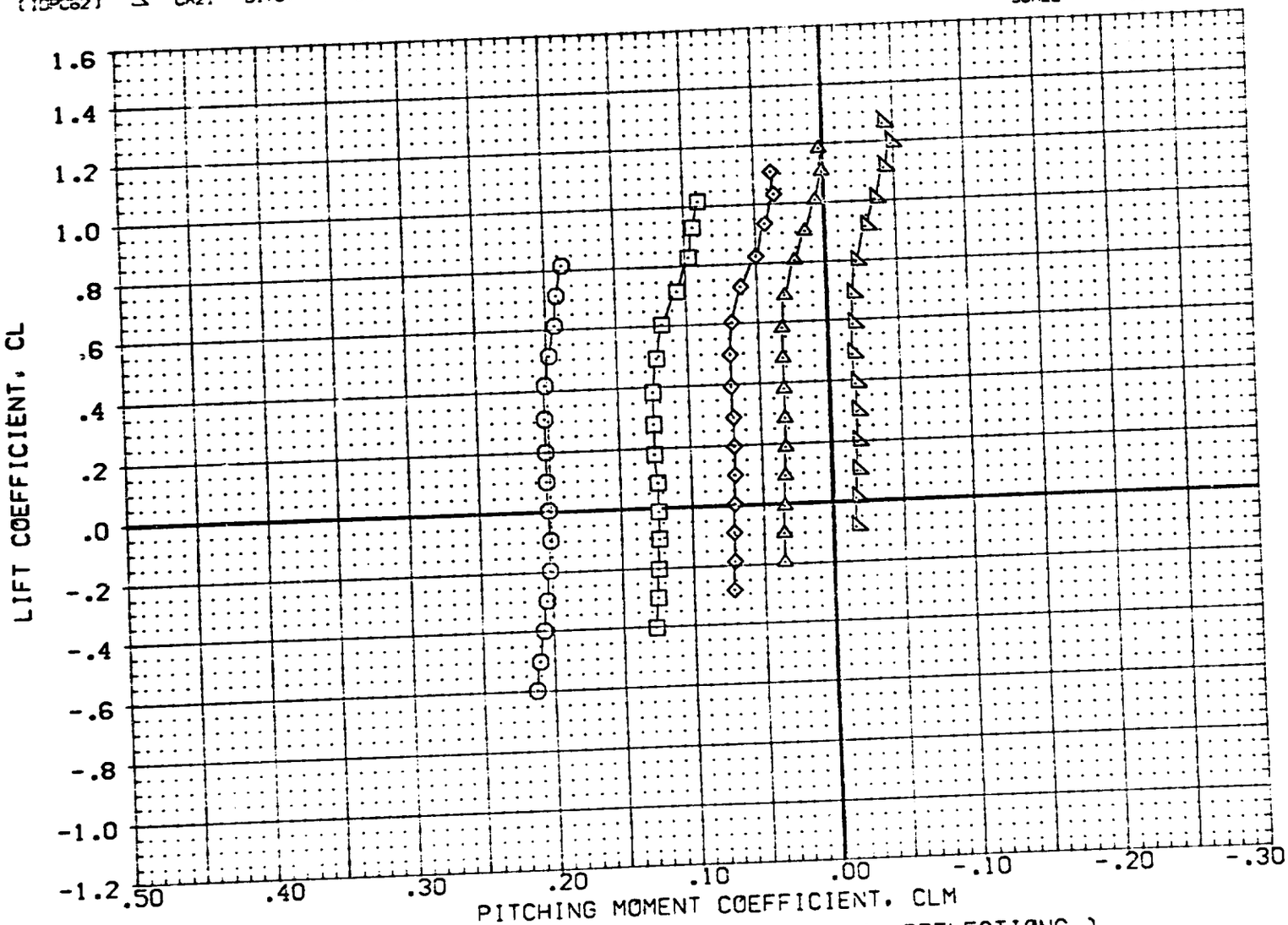


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[109065]	CA21	B17C7	M4F5	W1C7E23V7R6X9
[109064]	CA21	B17C7	M4F5	W1C7E23V7R6X9
[109063]	CA21	B17C7	M4F5	W1C7E23V7R6X9
[109061]	CA21	B17C7	M4F5	W1C7E23V7R6X9
[109062]	CA21	B17C7	M4F5	W1C7E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

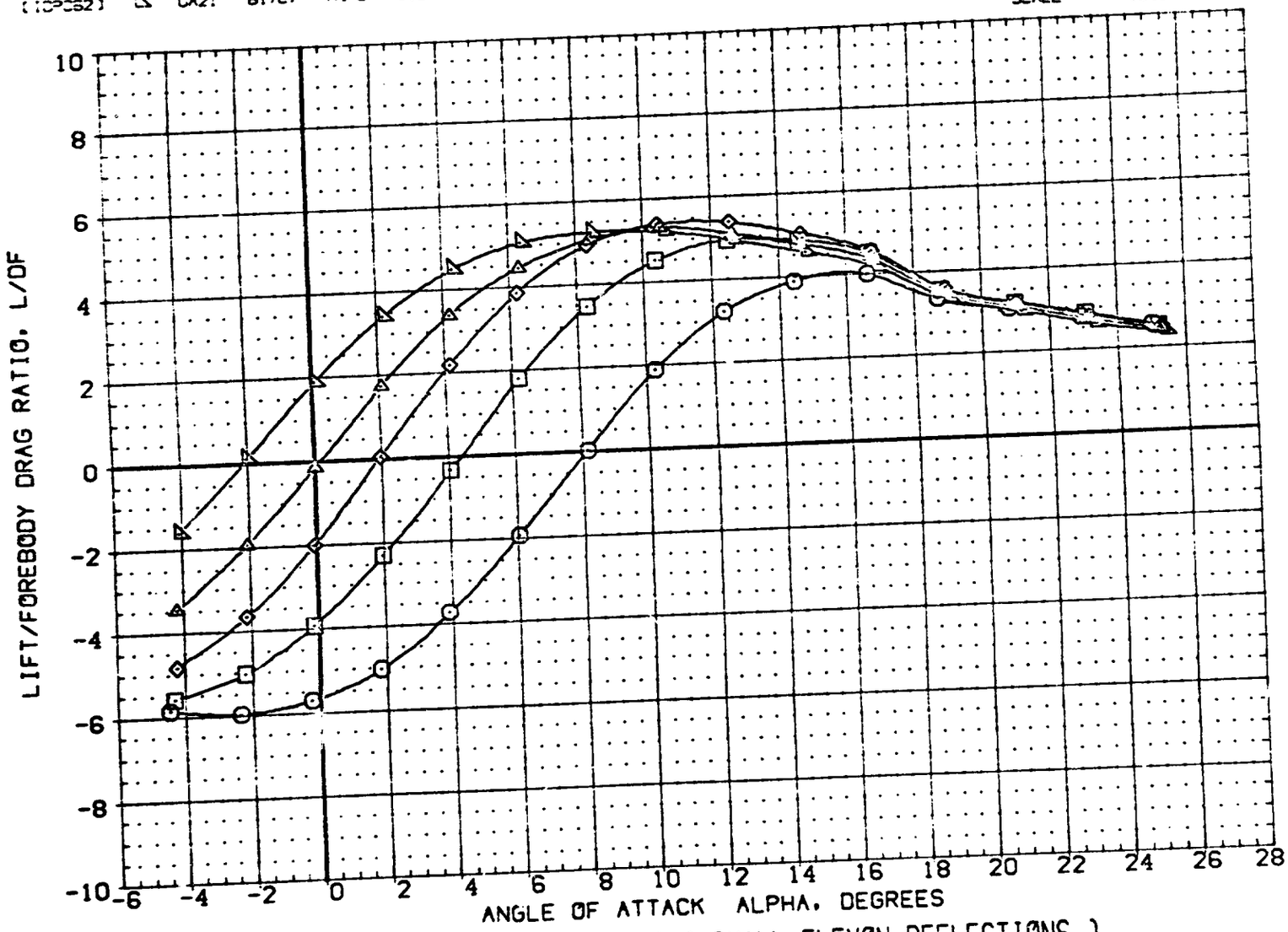


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP065)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP064)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP001)	◇	0A21	B17C7	M4F5	W107E23V7P6X9
(IDP061)	△	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP062)	▽	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

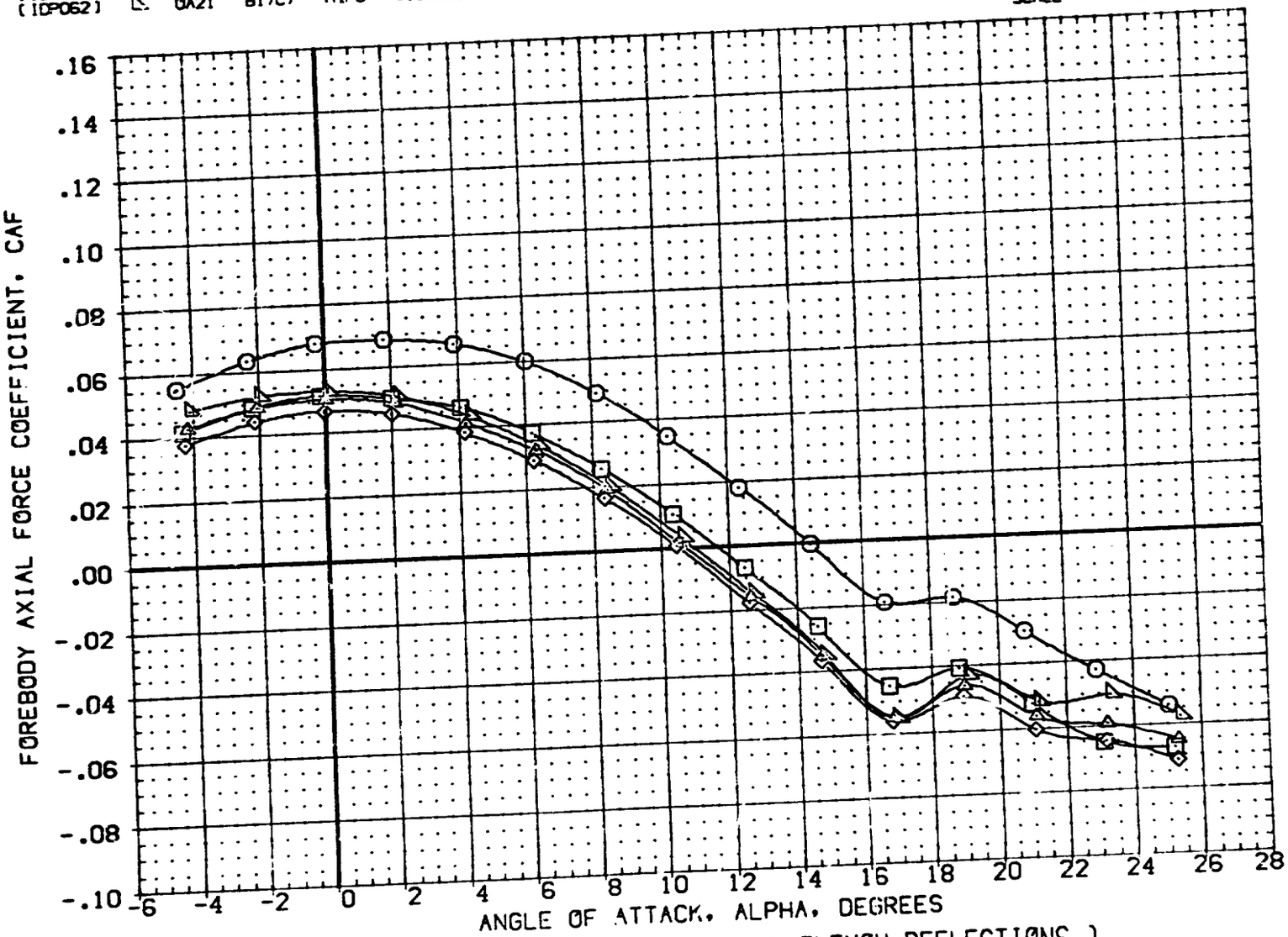


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

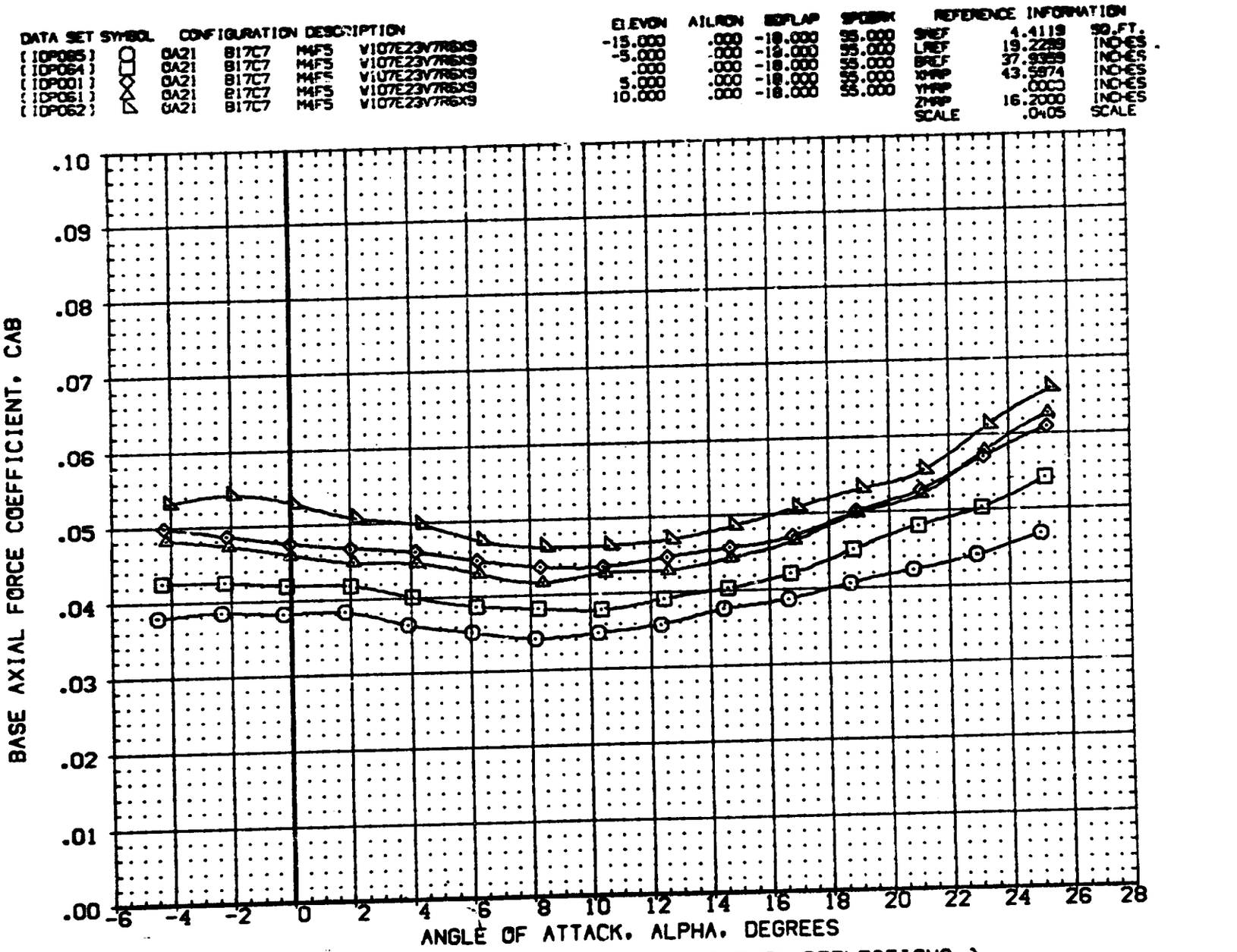


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP065)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP064)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP001)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP061)	△	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP062)	▷	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

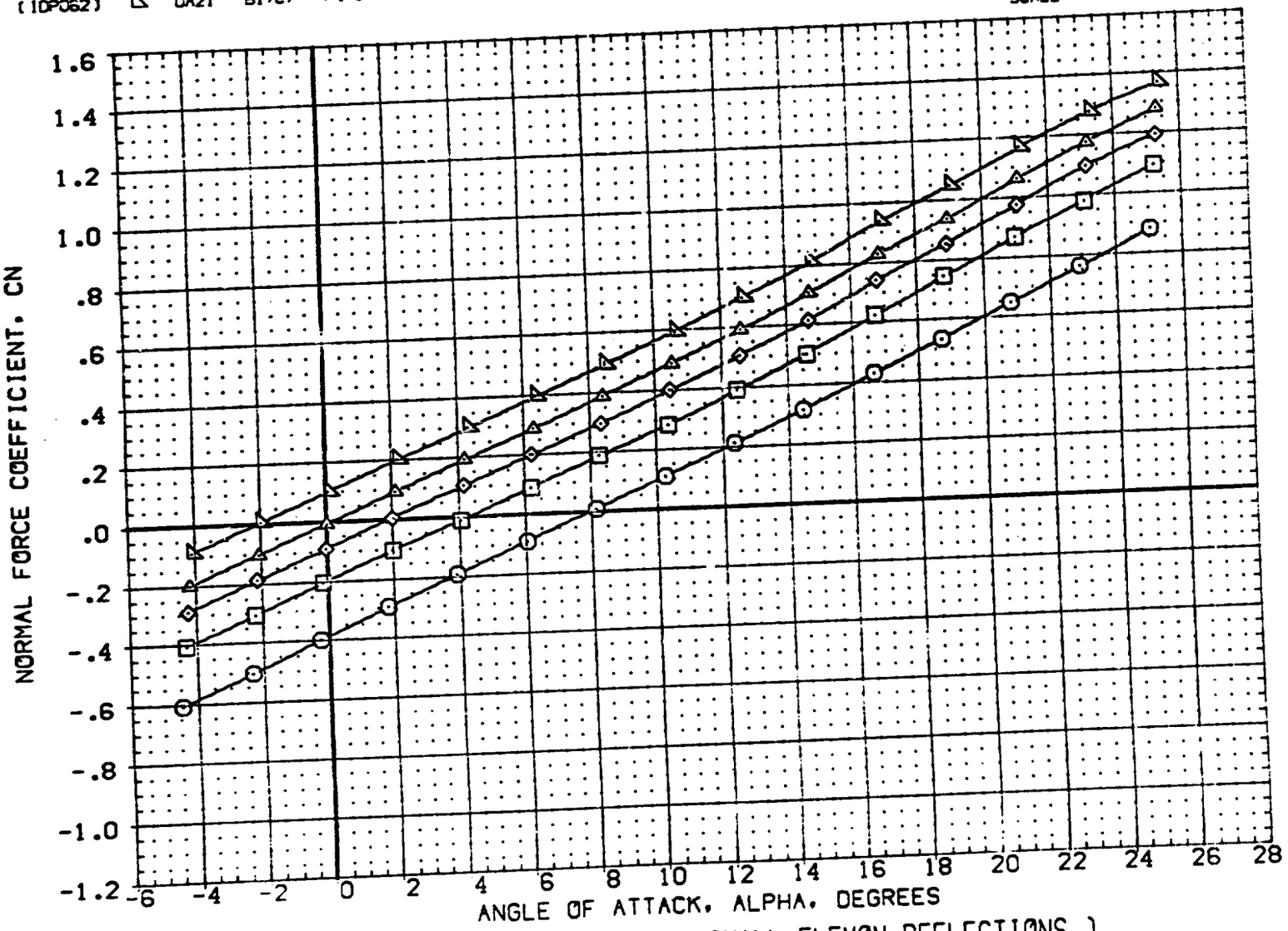


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

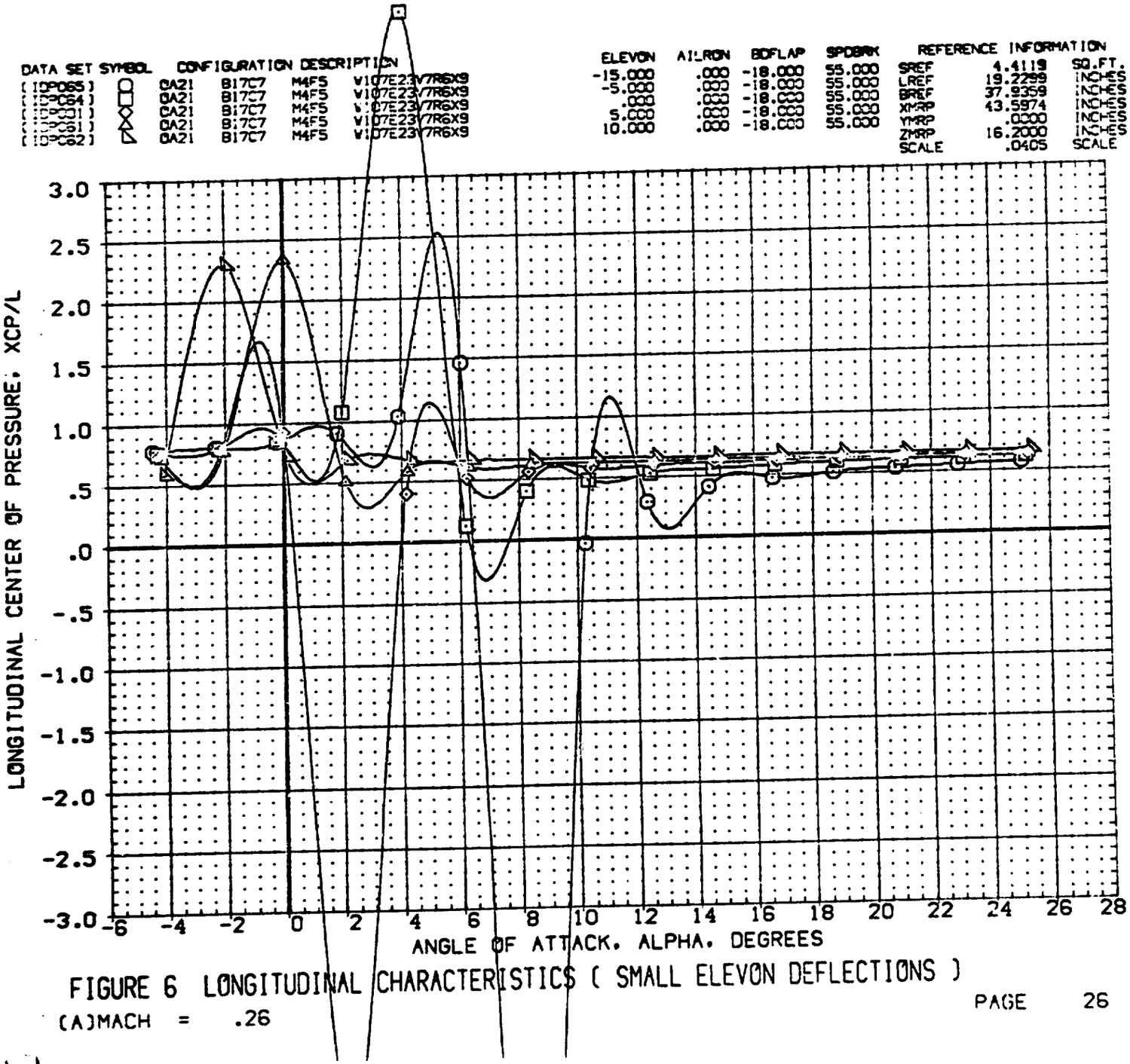


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
[illegible]	0A21	B17C7	M4F5	V107E23V7R6X9
[illegible]	0A21	B17C7	M4F5	V107E23V7R6X9
[illegible]	0A21	B17C7	M4F5	V107E23V7R6X9
[illegible]	0A21	B17C7	M4F5	V107E23V7R6X9
[illegible]	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
-15.000	.000	-18.000	55.000
-5.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

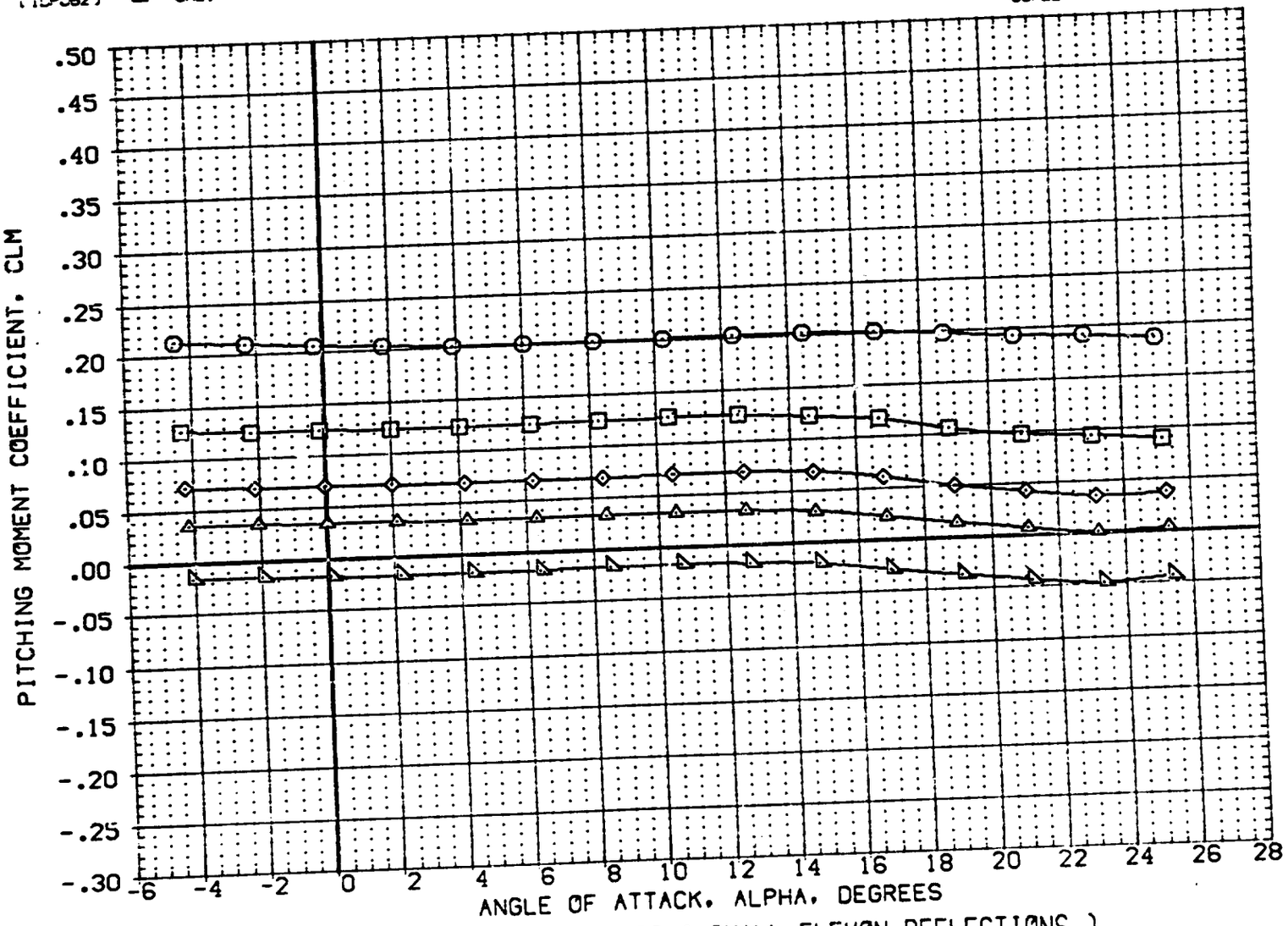


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS).

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(BDP064)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(BDP061)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(BDP062)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
-5.000	10.000	-18.000	35.000
5.000	10.000	-18.000	55.000
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2288	INCHES
BREF	37.9368	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

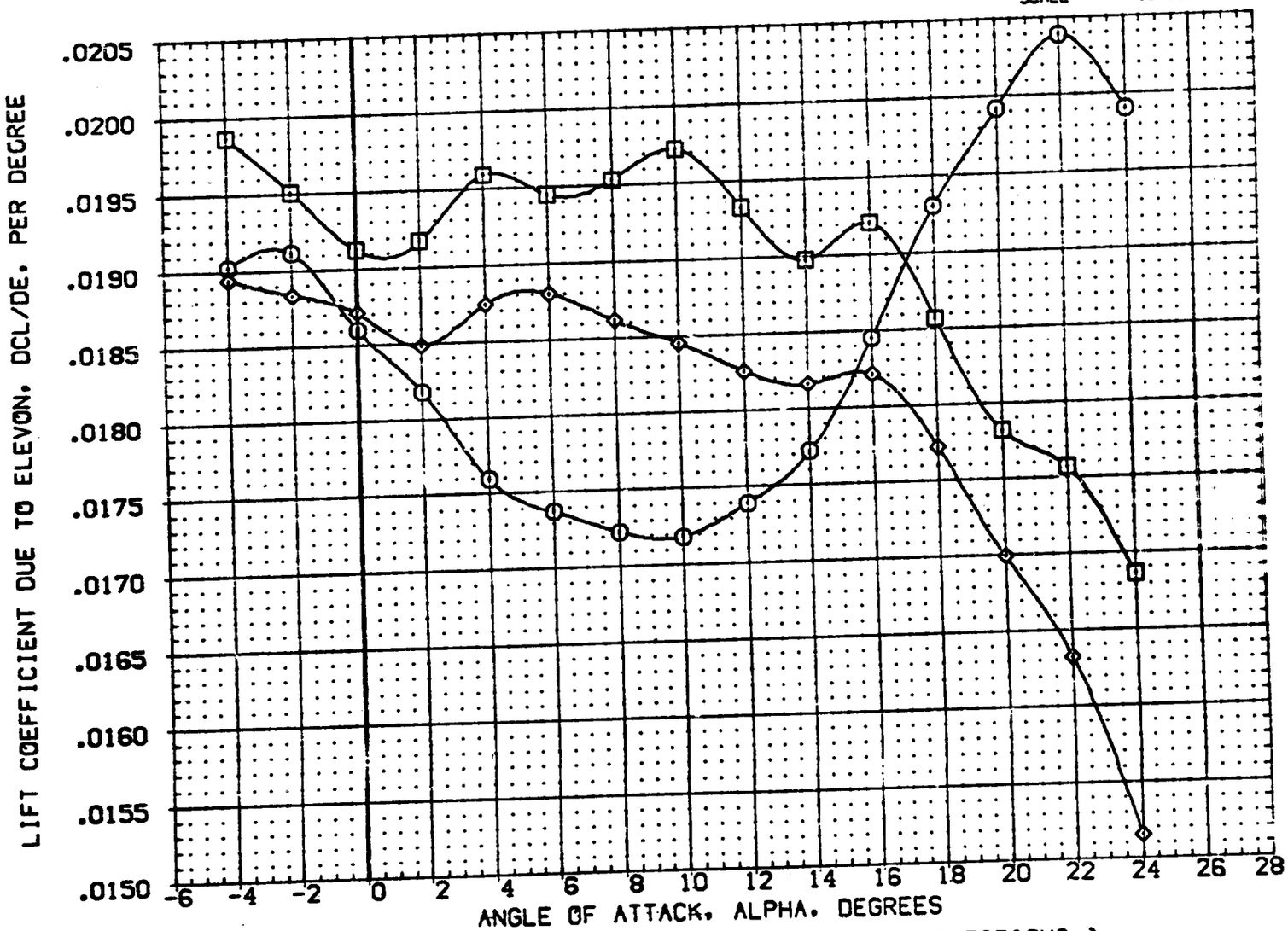


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[03P064]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[03P061]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[03P062]	◇	0A21	B17C7	M4F5	W107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
-5.000	10.000	-18.000	55.000
5.000	10.000	-18.000	55.000
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

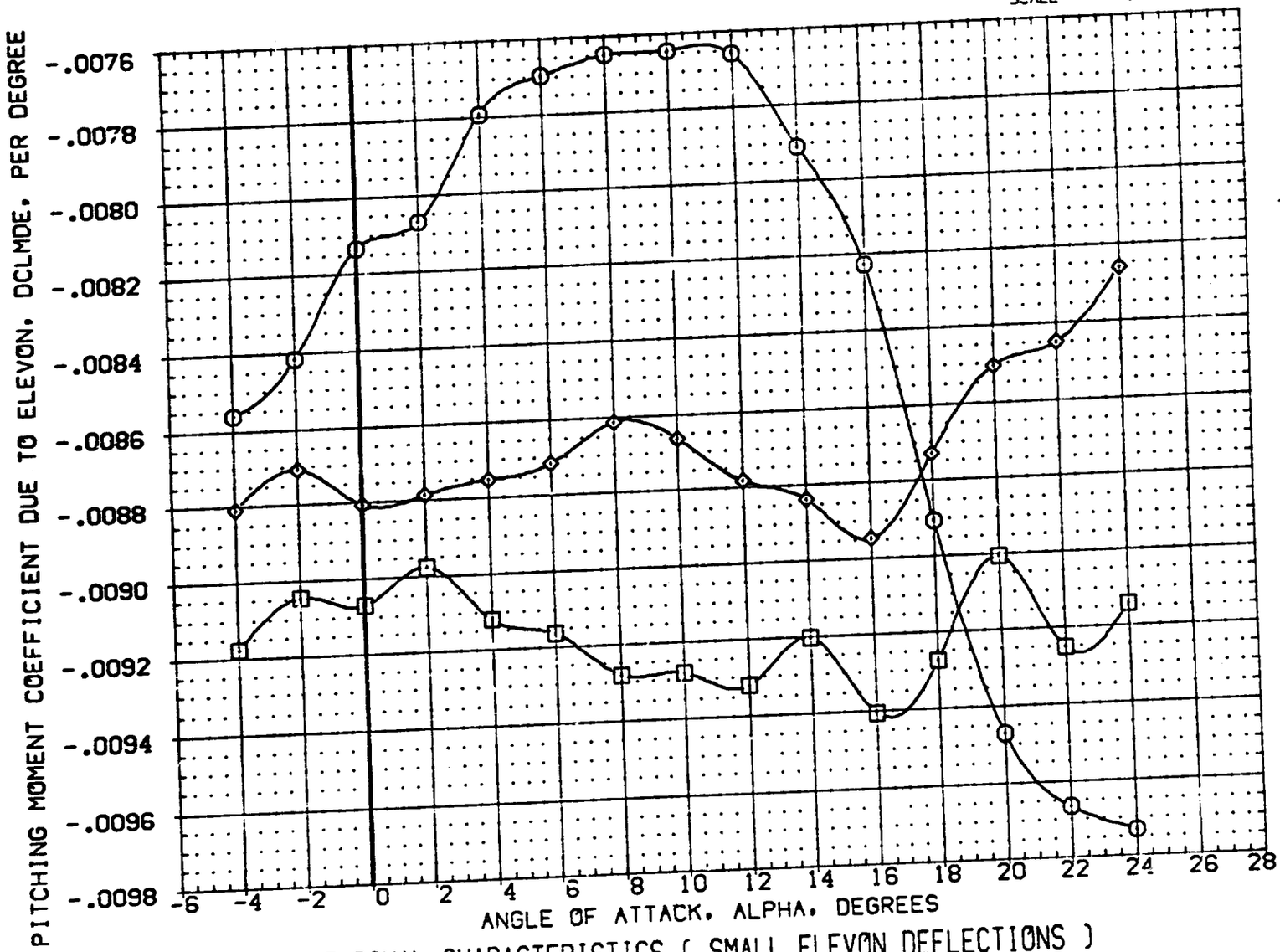


FIGURE 6 LONGITUDINAL CHARACTERISTICS (SMALL ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP067)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP066)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP061)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP063)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

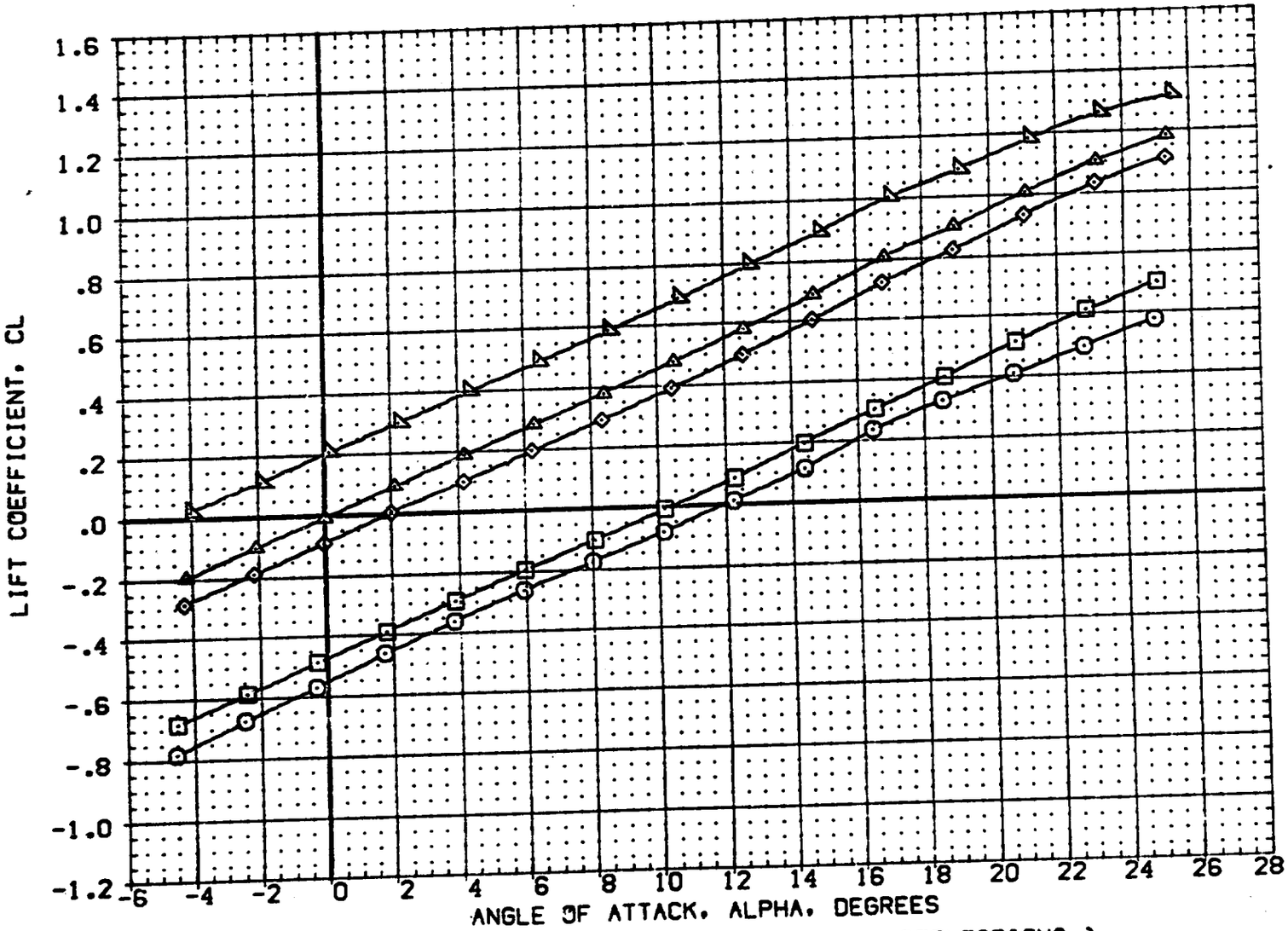


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDPC67)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC66)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC01)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC61)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC63)		0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

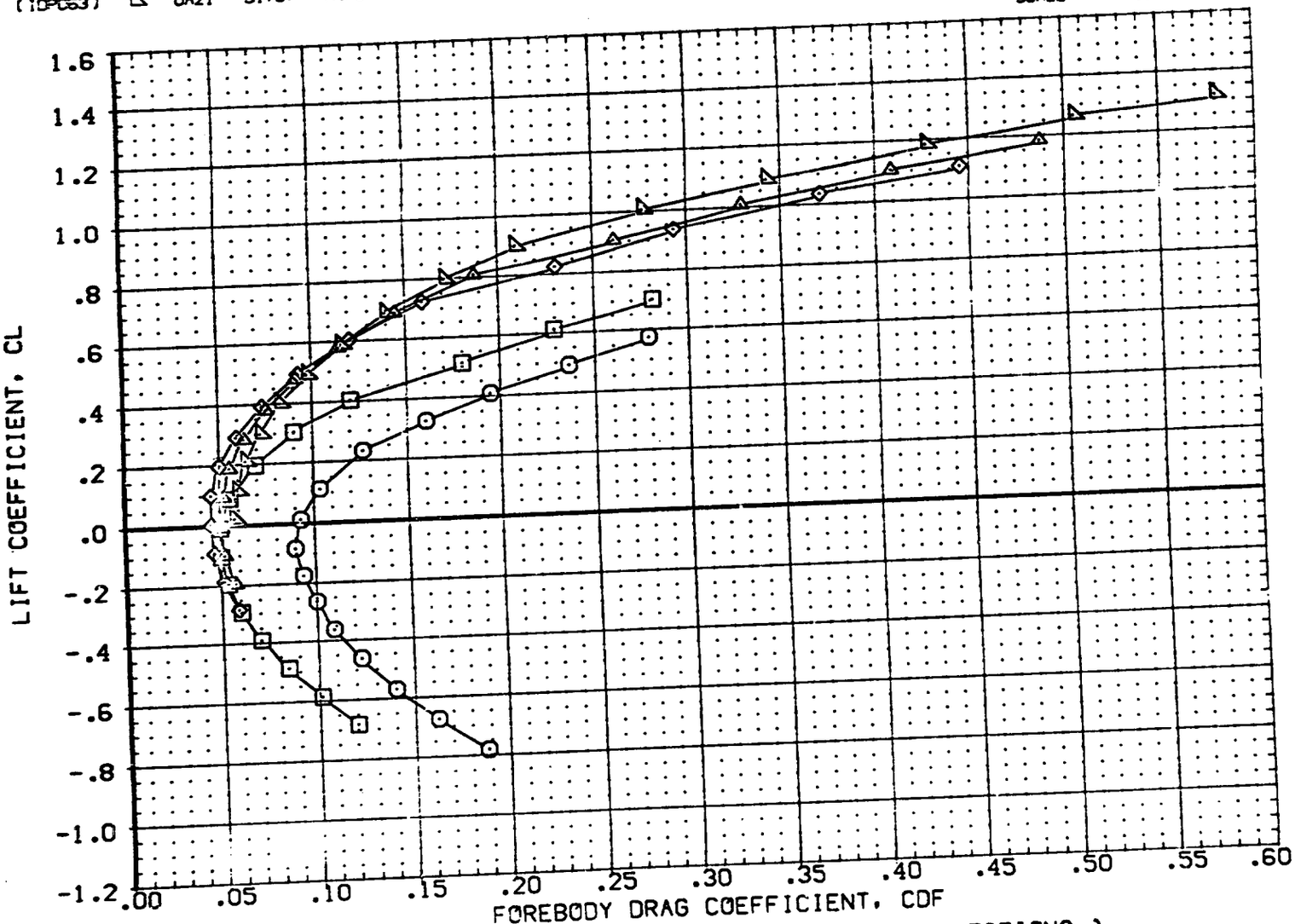


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP067)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP066)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DPC01)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP061)	△	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP063)	▽	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

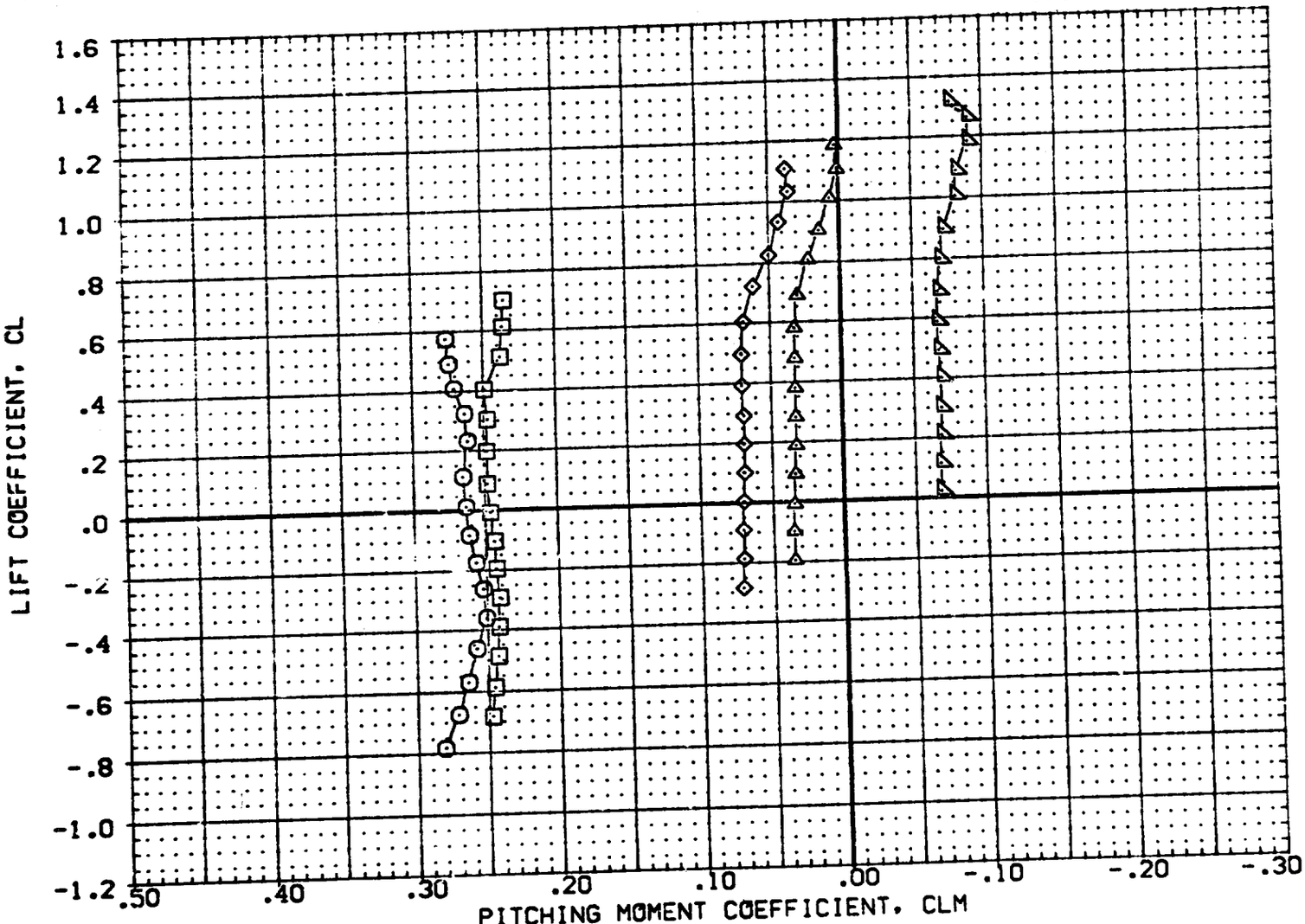


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDP067)	0A21	B17C7	M4F5	W107E23V7R6X9	
(IDPC66)	0A21	B17C7	M4F5	W107E23V7R6X9	
(IDP001)	0A21	B17C7	M4F5	W107E23V7R6X9	
(IDP061)	0A21	B17C7	M4F5	W107E23V7R6X9	
(IDPC63)	0A21	B17C7	M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

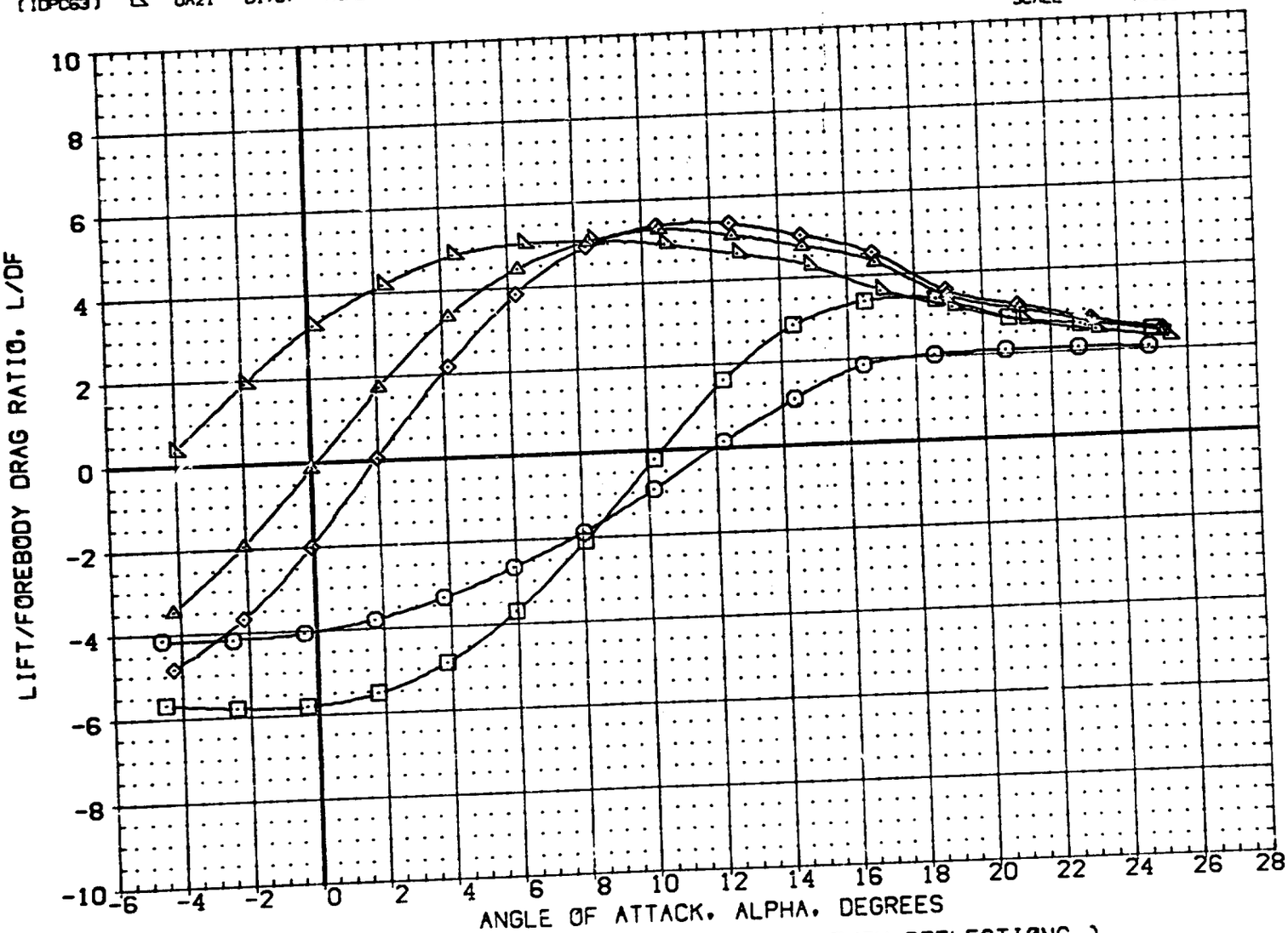


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(1DP067)	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP066)	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP001)	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP061)	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP063)	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

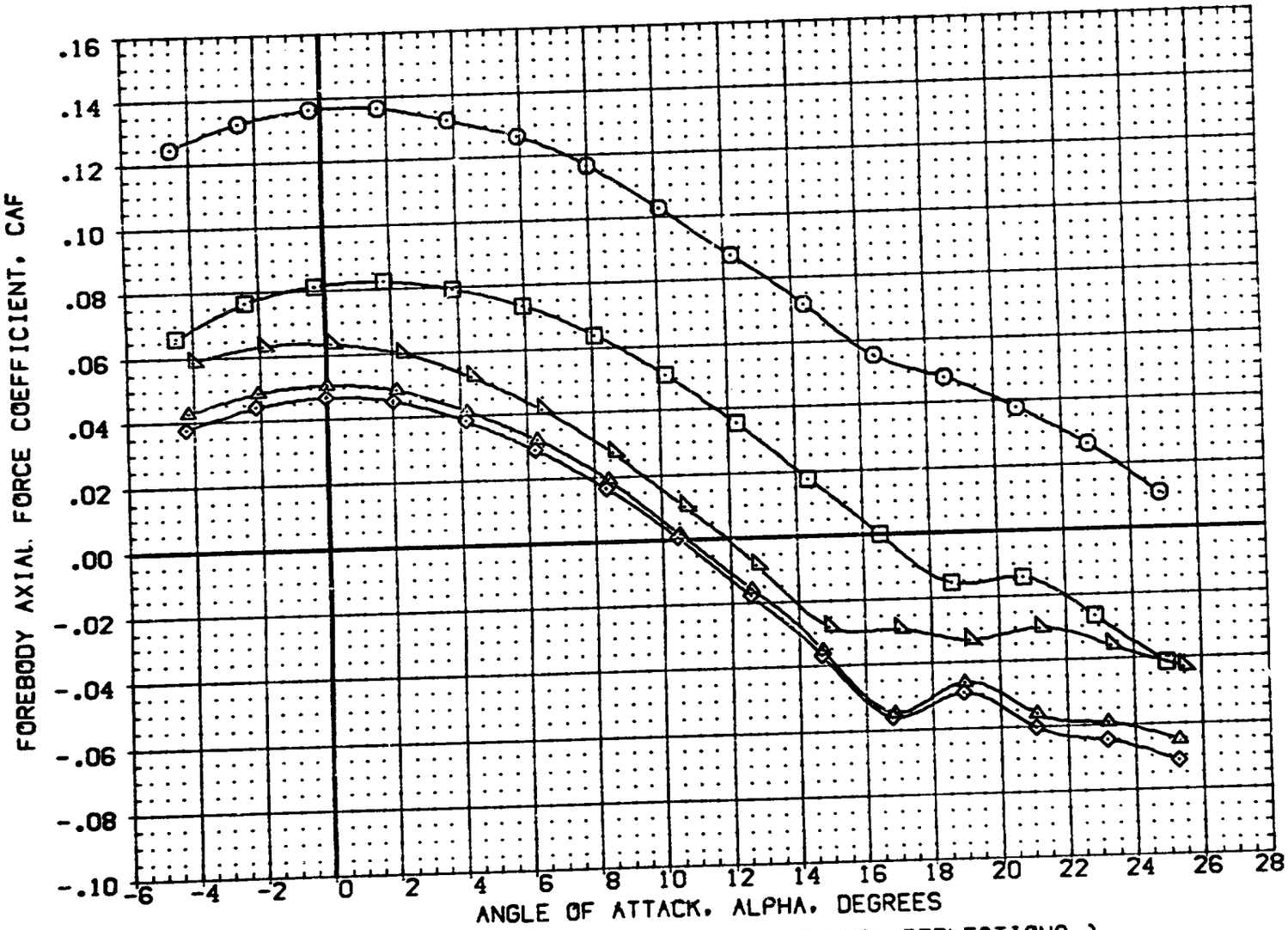


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDPC67)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC66)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC01)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC61)		0A21	B17C7	M4F5	W107E23V7R6X9
(IDPC63)		0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

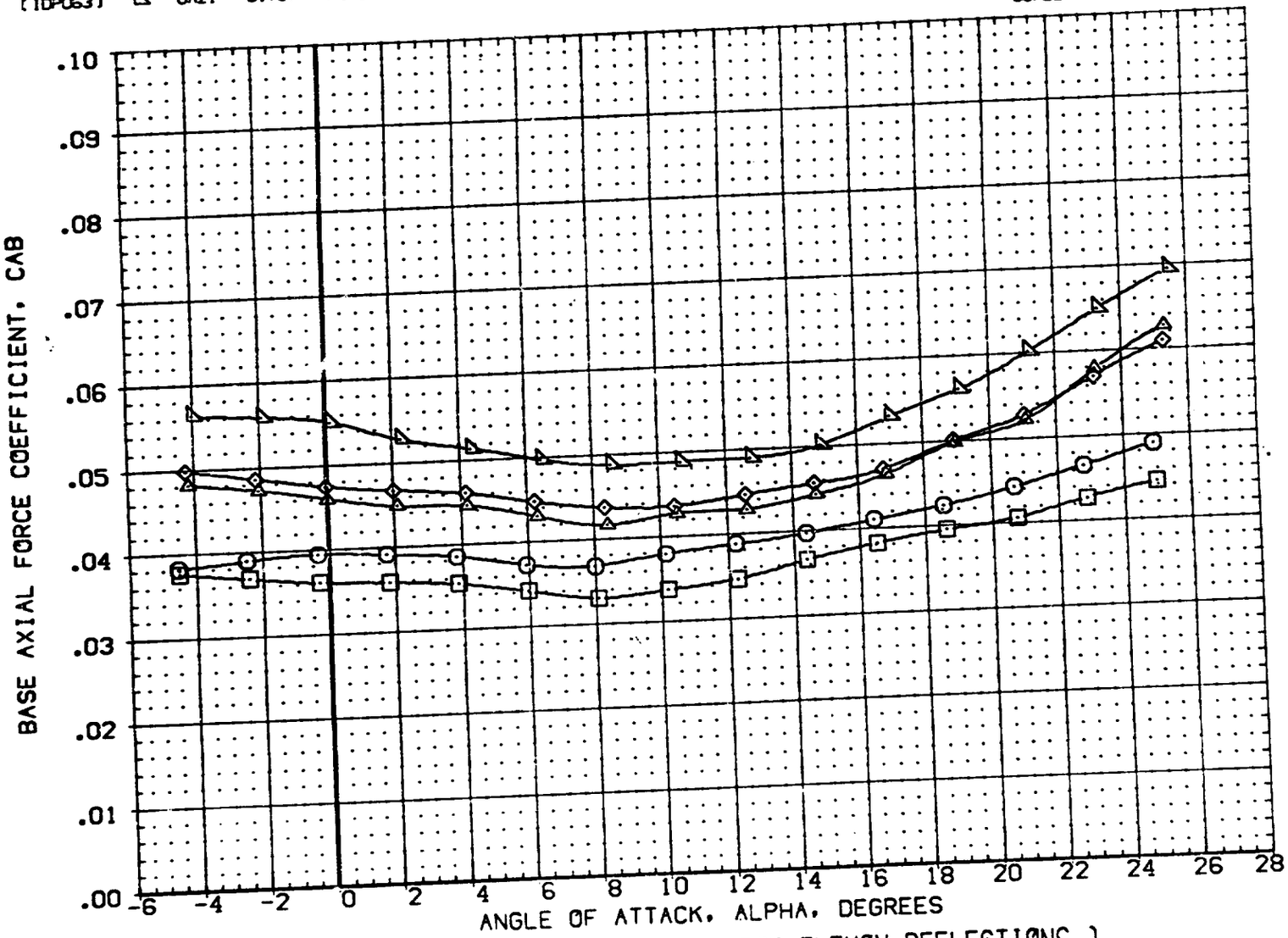


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

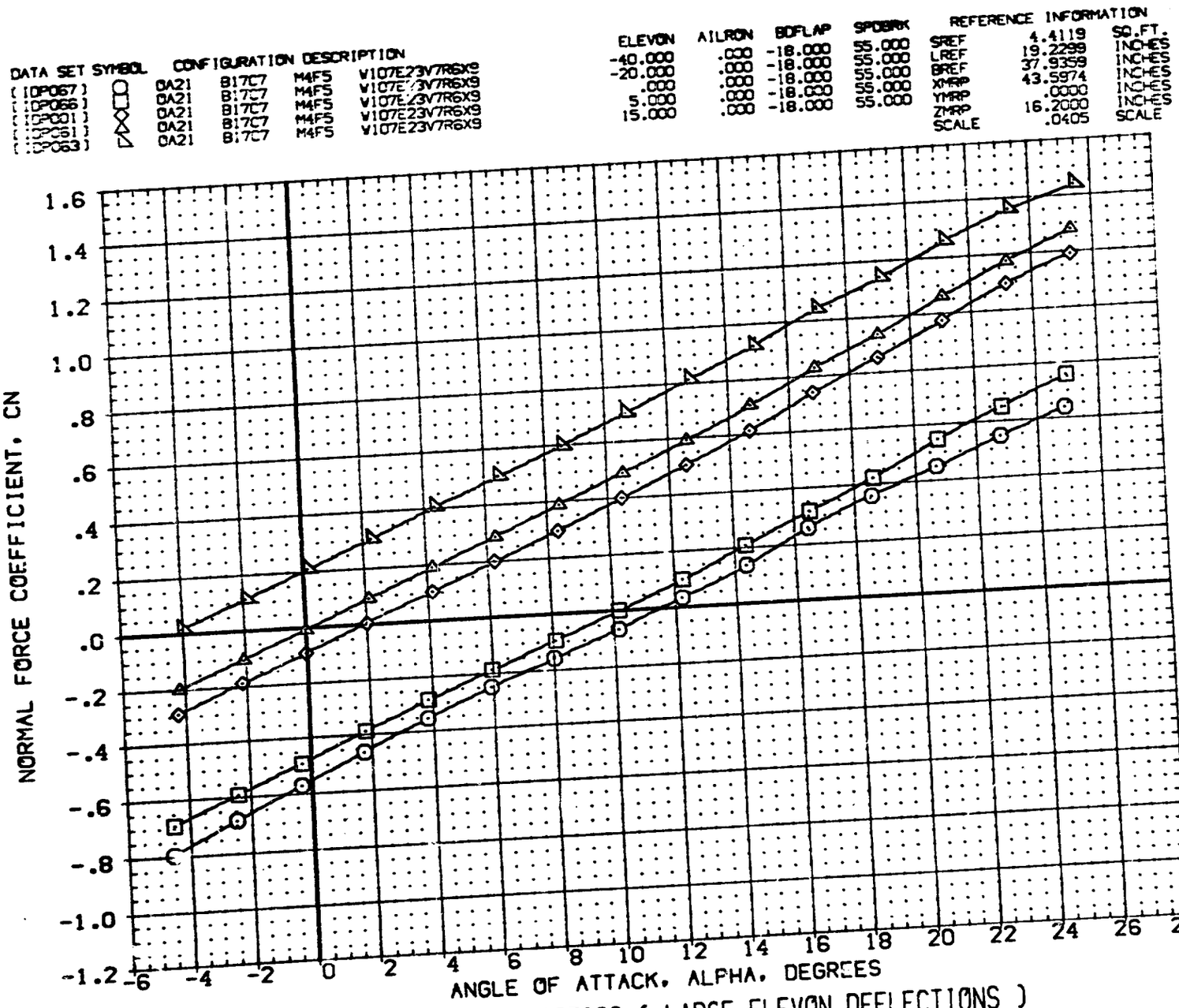


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP067]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP066]	◇	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP061]	◇	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP063]	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
-40.000	.000	-18.000	55.000
-20.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
15.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

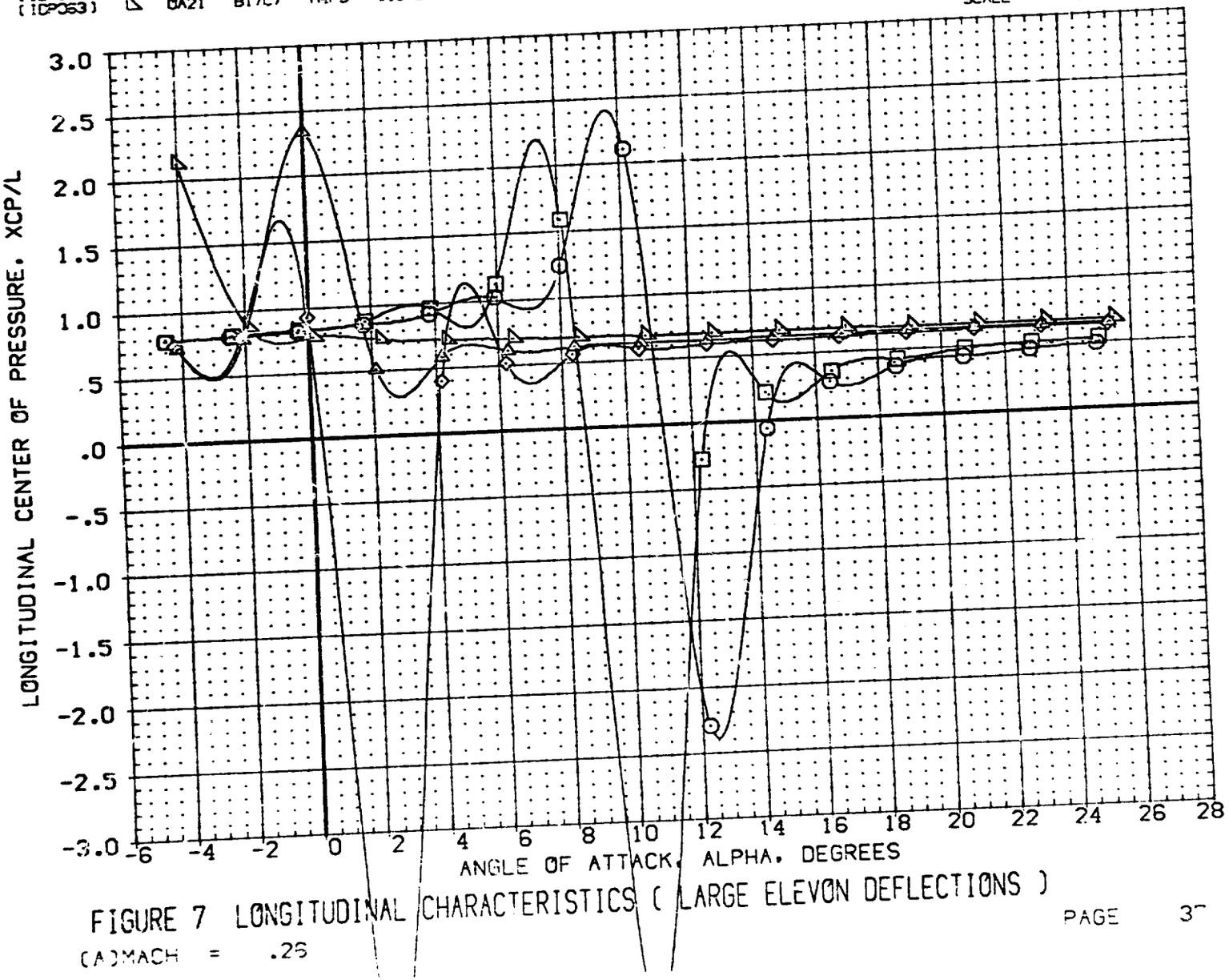


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

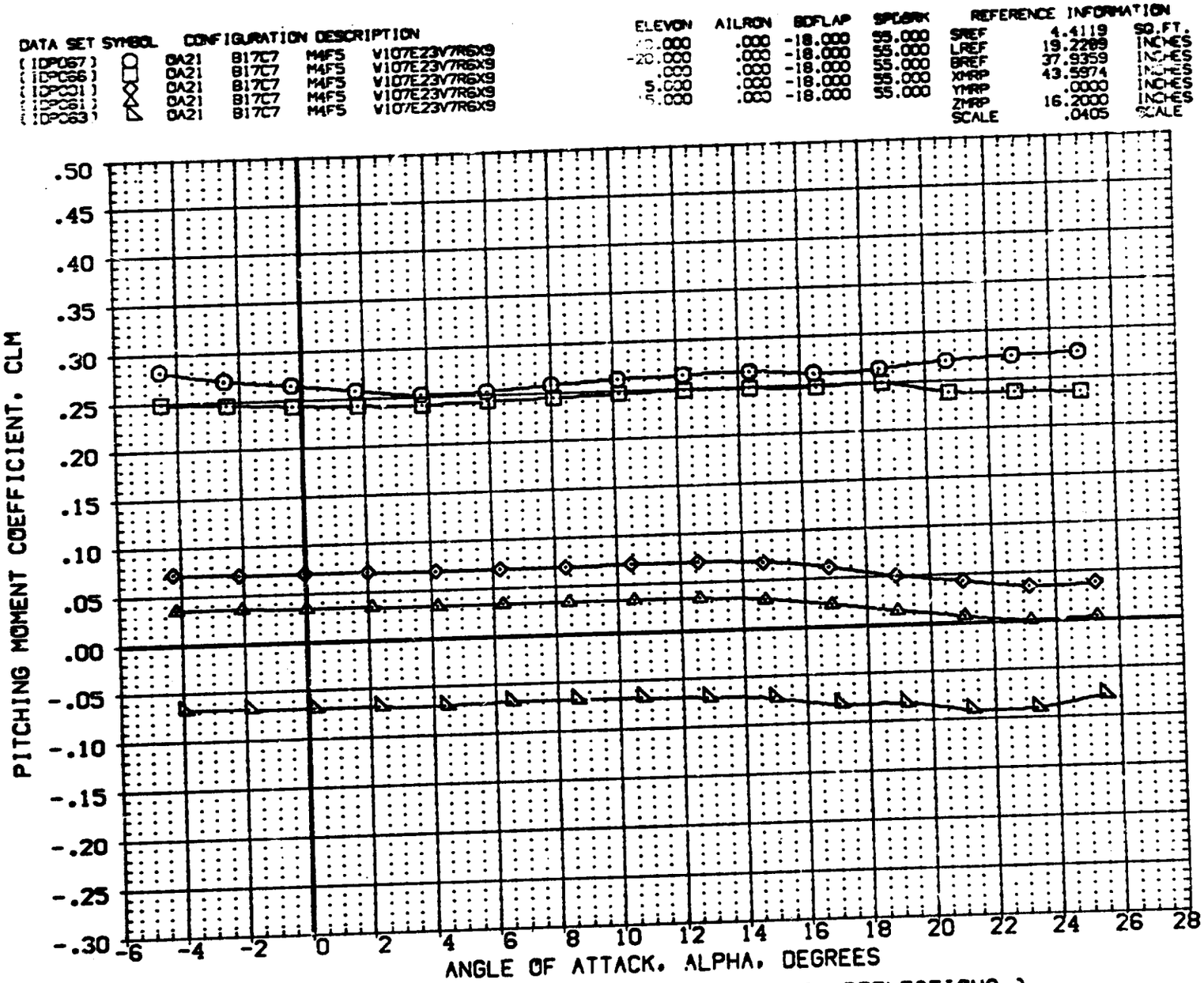


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(00P066)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(00P001)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(00P063)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
-20.000	20.000	-18.000	55.000
.000	20.000	-18.000	55.000
15.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

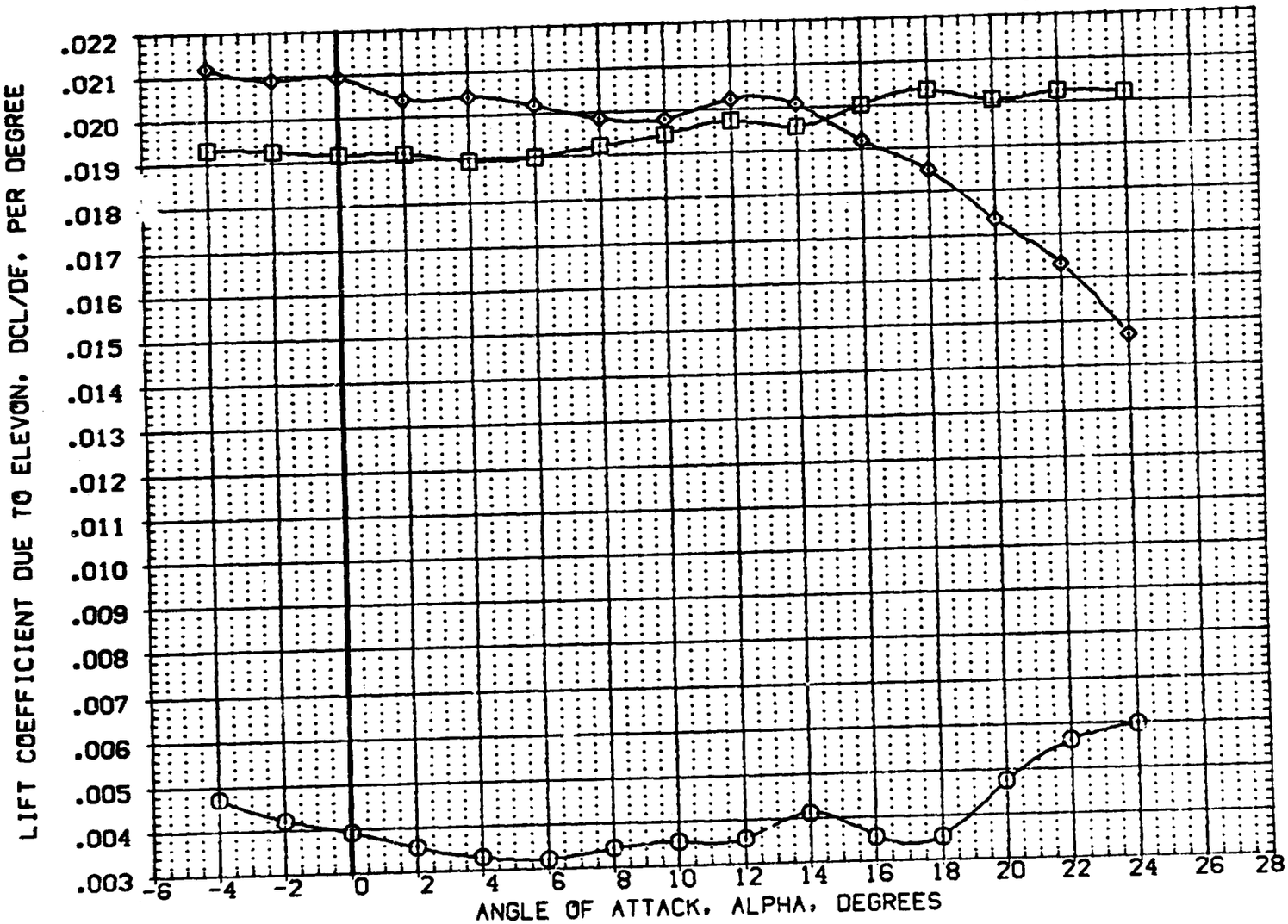


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[80P066]	0A21	B17C7	M4F5	V107E23V7R6X9
[80P001]	0A21	B17C7	M4F5	V107E23V7R6X9
[80P063]	0A21	B17C7	M4F5	V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
-20.000	20.000	-18.000	55.000
.000	20.000	-18.000	55.000
15.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

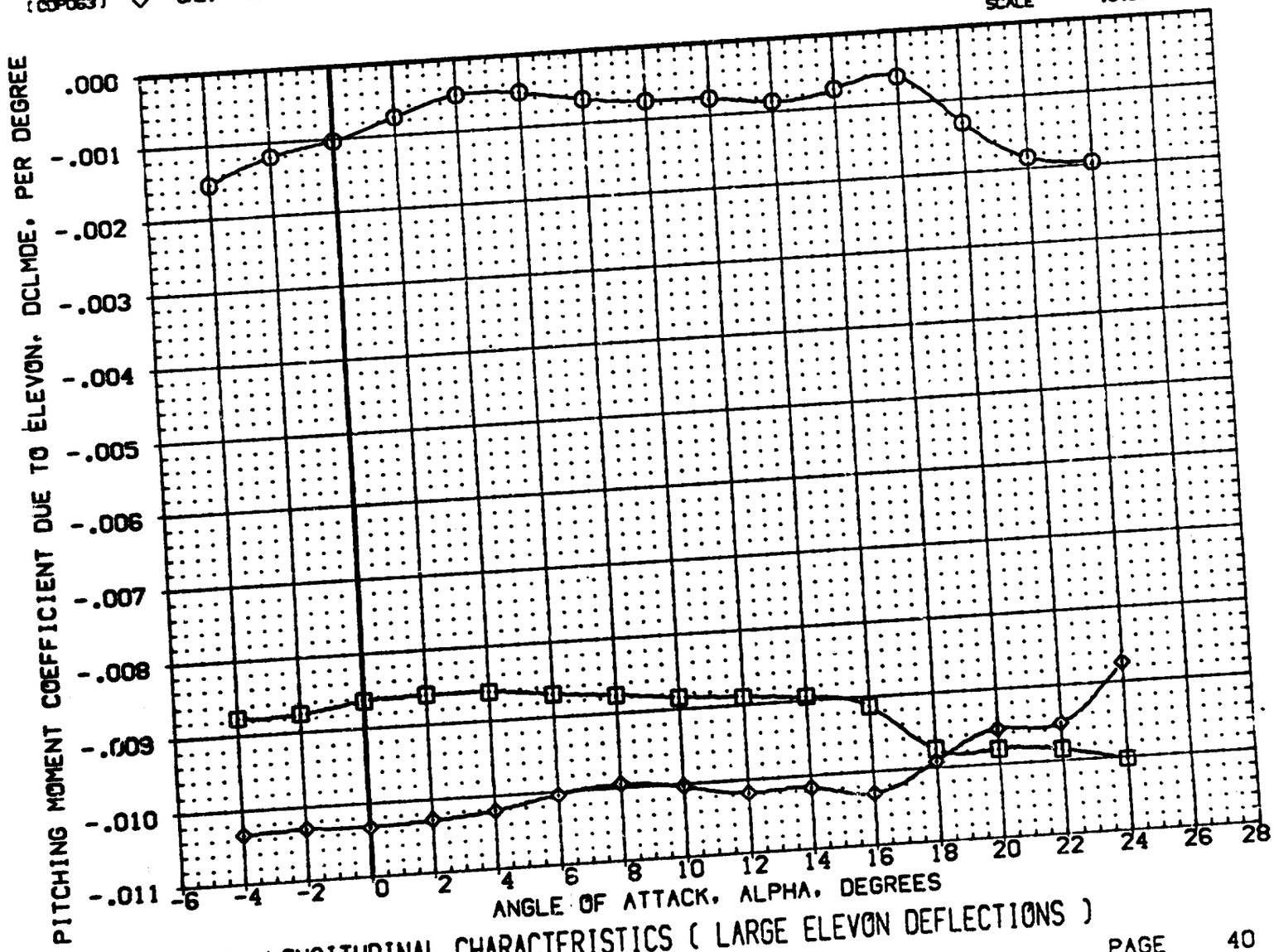


FIGURE 7 LONGITUDINAL CHARACTERISTICS (LARGE ELEVON DEFLECTIONS)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP107)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP127)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP132)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

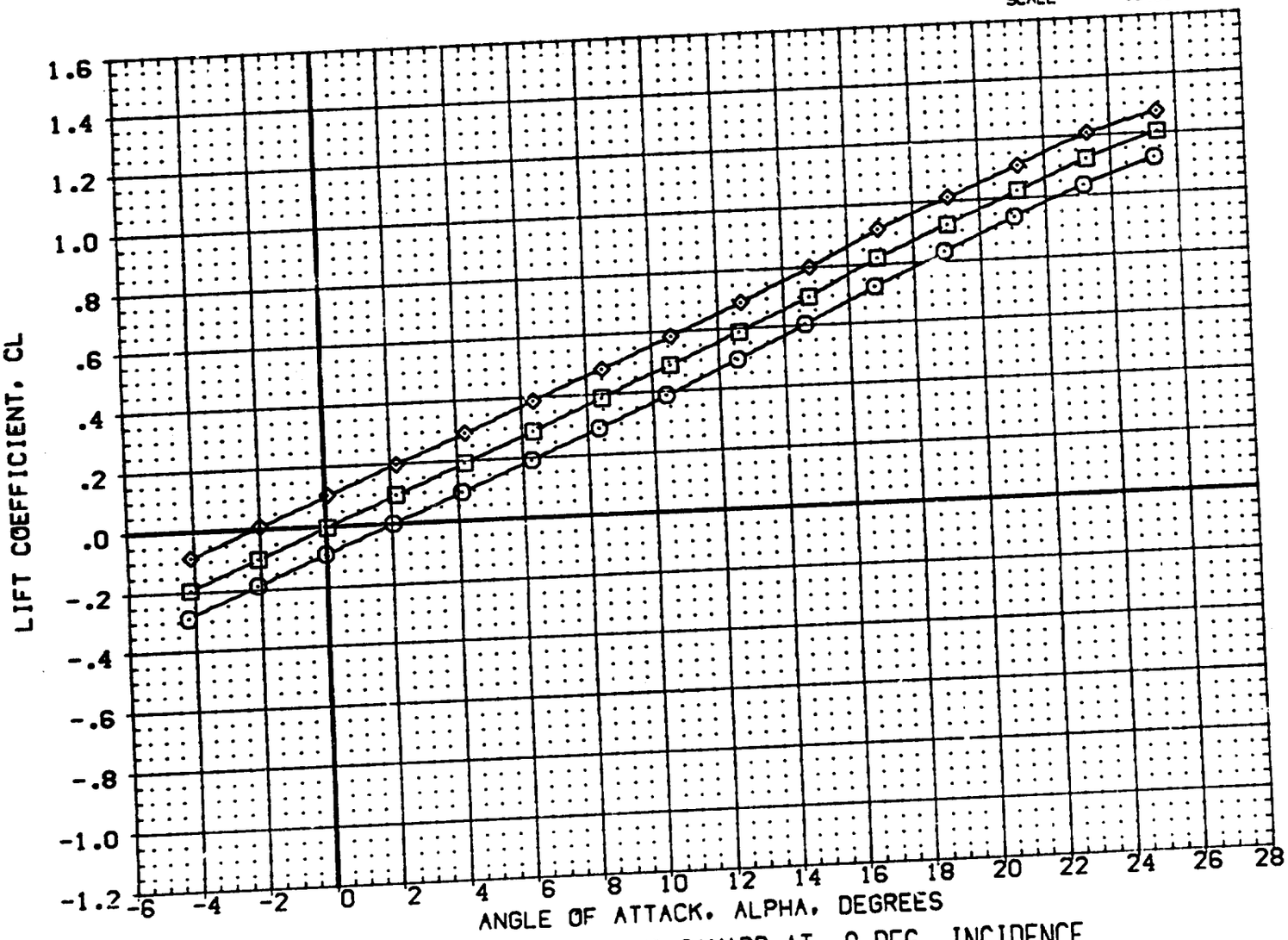


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP107)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP127)	□	0A21	B17C7 H2M4F5	V107E23V7RFX9	
(IDP132)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-10.000	99.000
5.000	.000	-10.000	99.000
10.000	.000	-10.000	99.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.3574	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

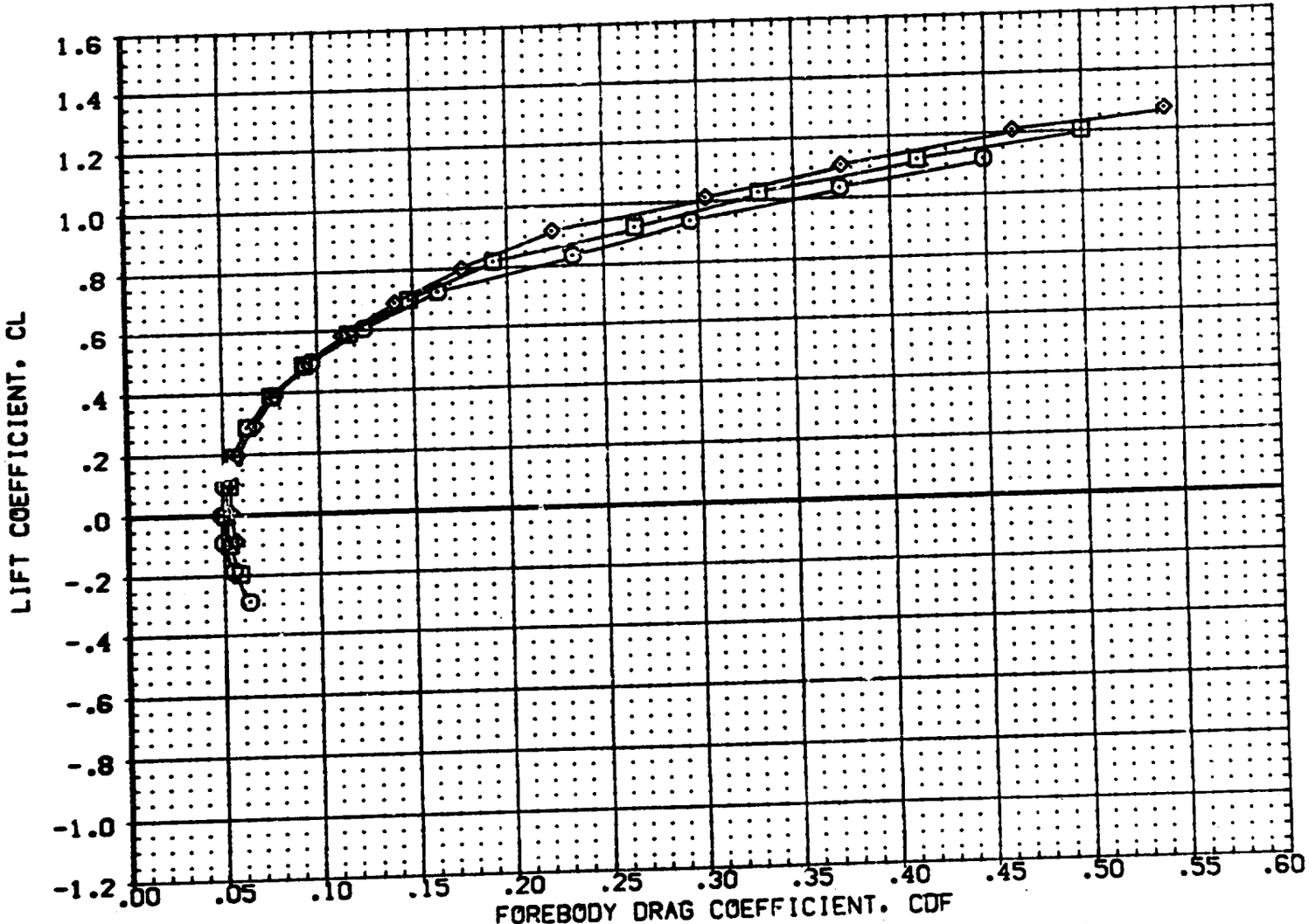


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(DP107)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9
(DP127)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9
(DP132)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

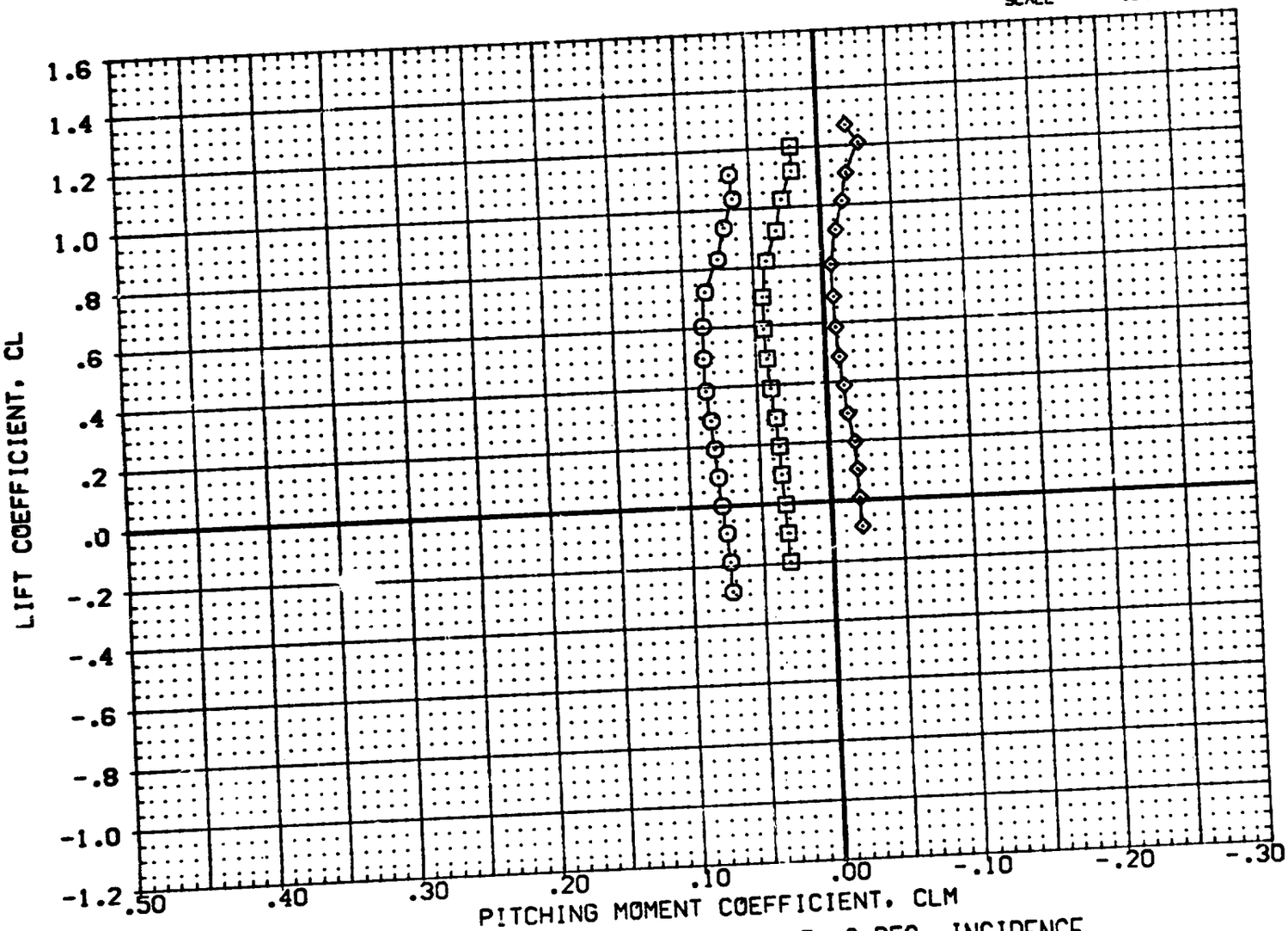


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BDFLAP	SPOBRK
(1DP107)	□	0A21	B17C7	H2M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(1DP127)	◇	0A21	B17C7	H2M4F5	V107E23V7R6X9	5.000	.000	-18.000	55.000
(1DP132)	◇	0A21	B17C7	H2M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

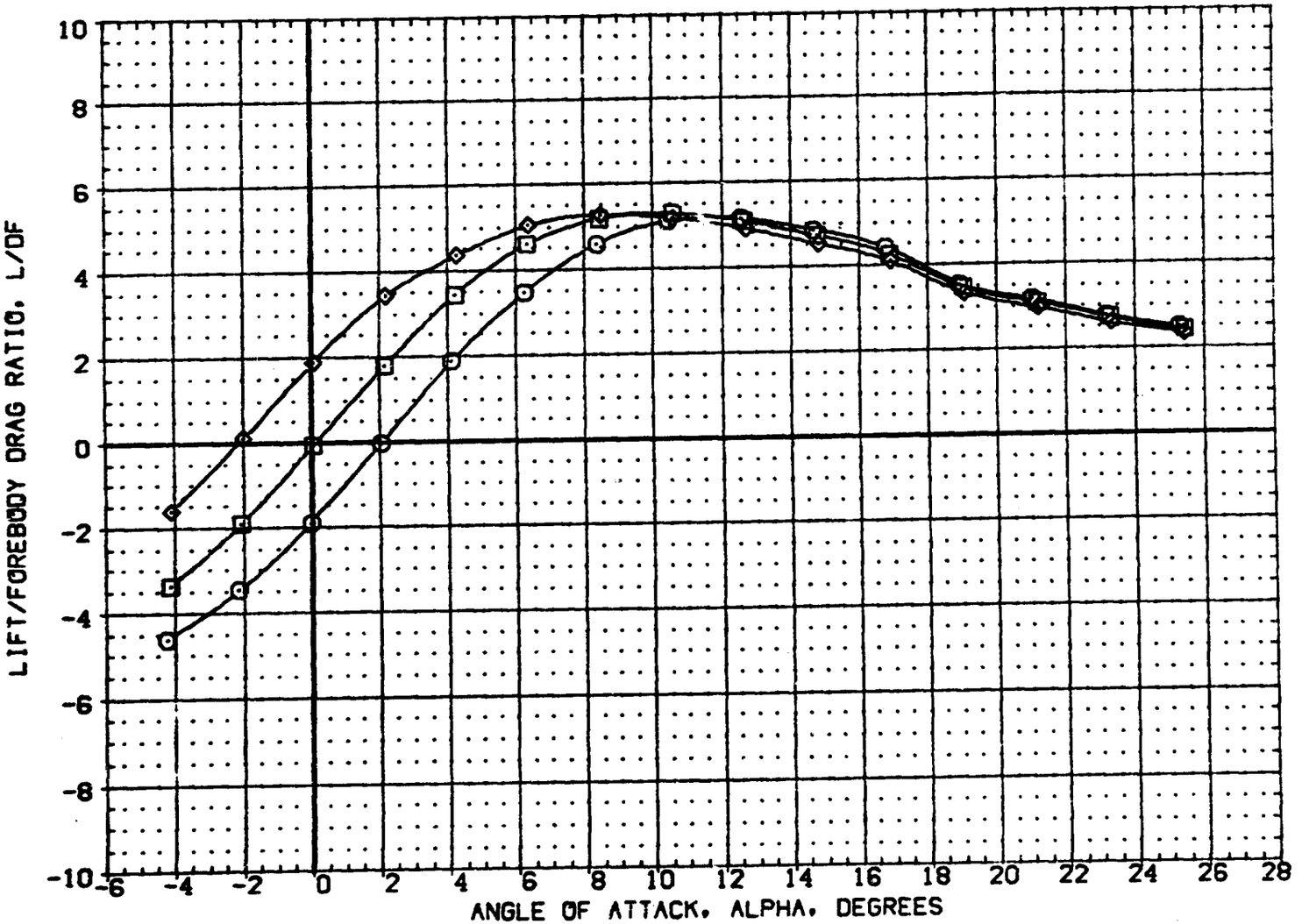


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP107)	○□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(IDP127)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(IDP132)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

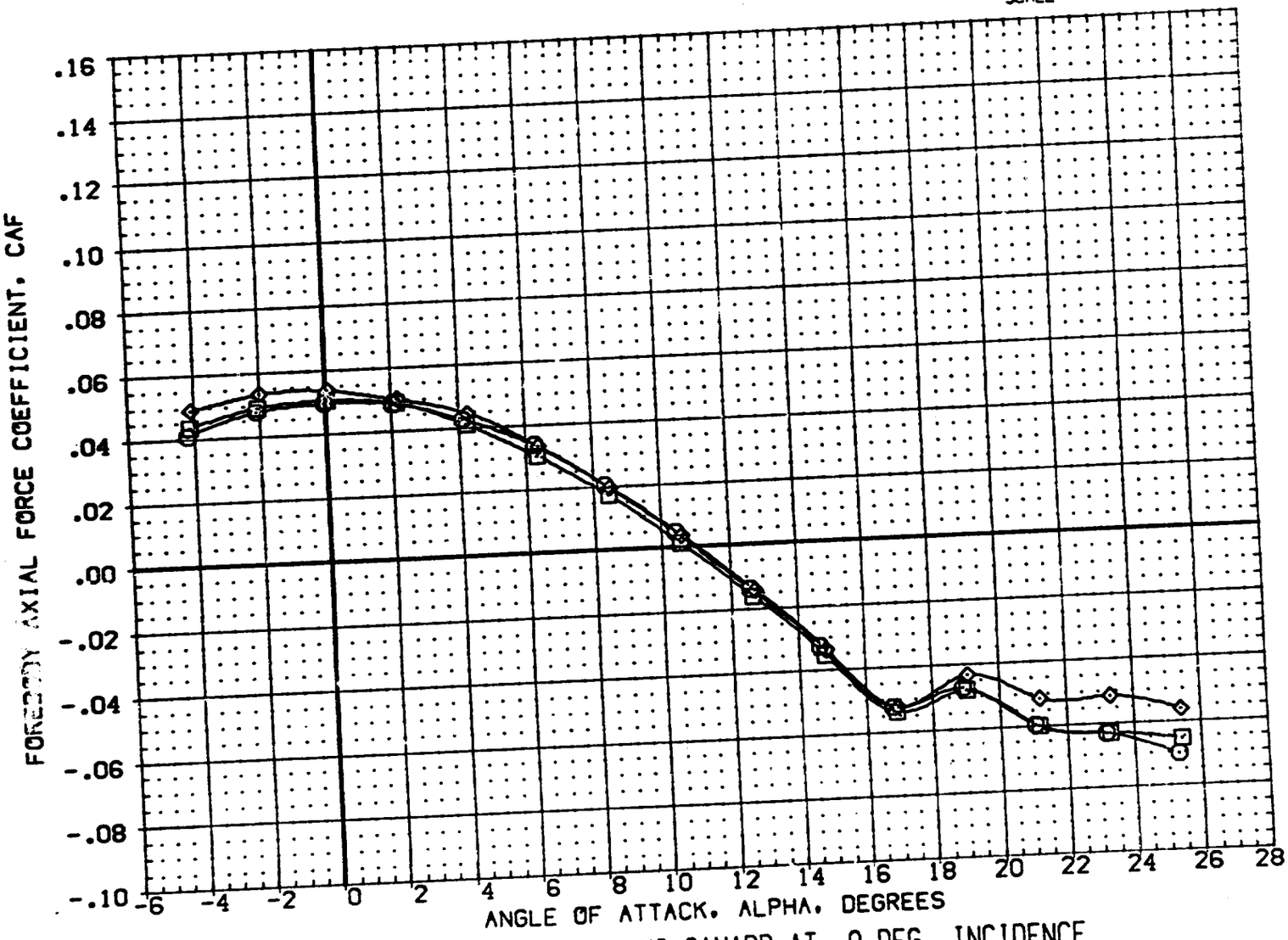


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP107)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(1DF127)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(1DP132)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

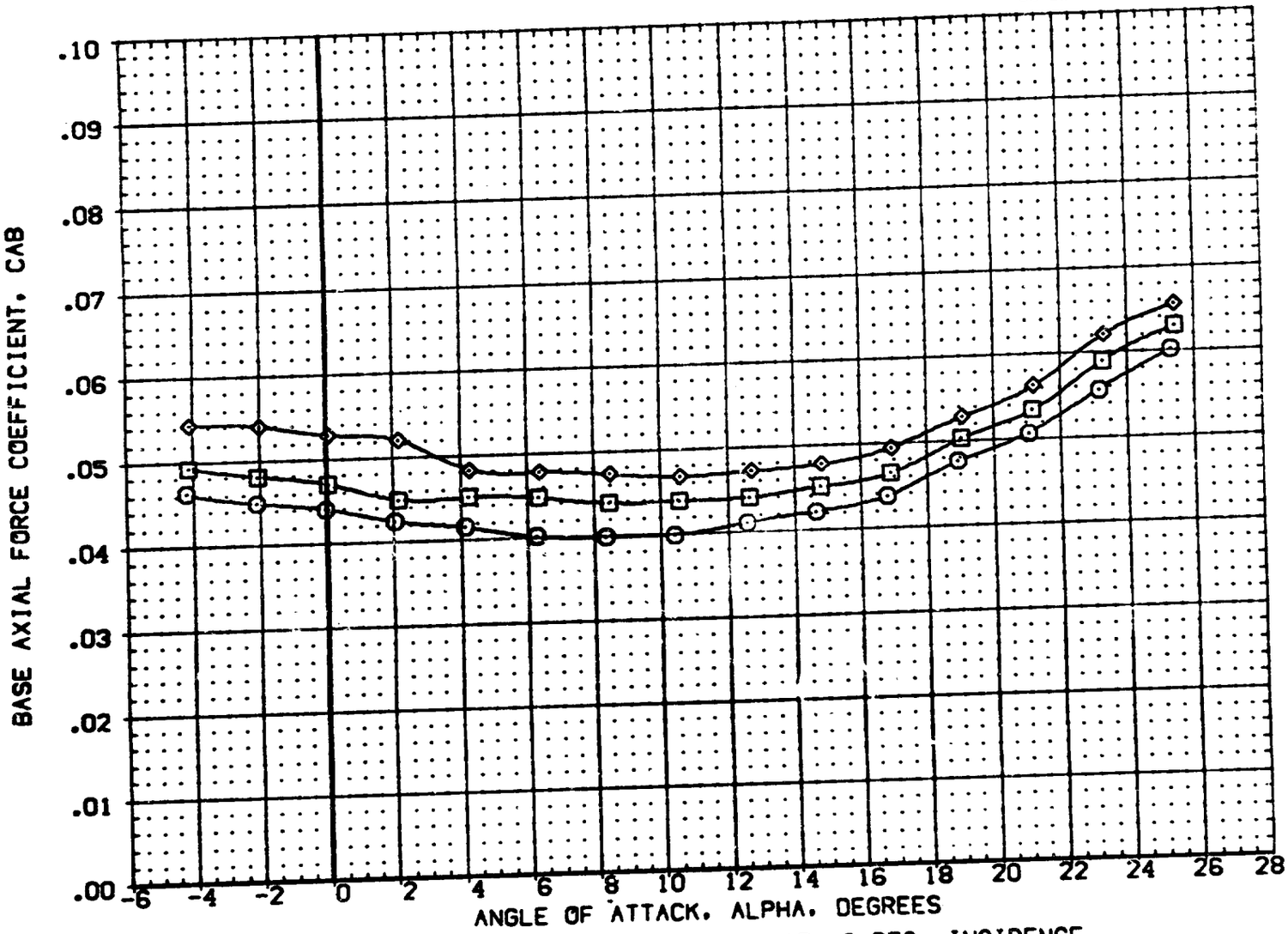


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(1DP107)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9
(1DP127)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9
(1DP132)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

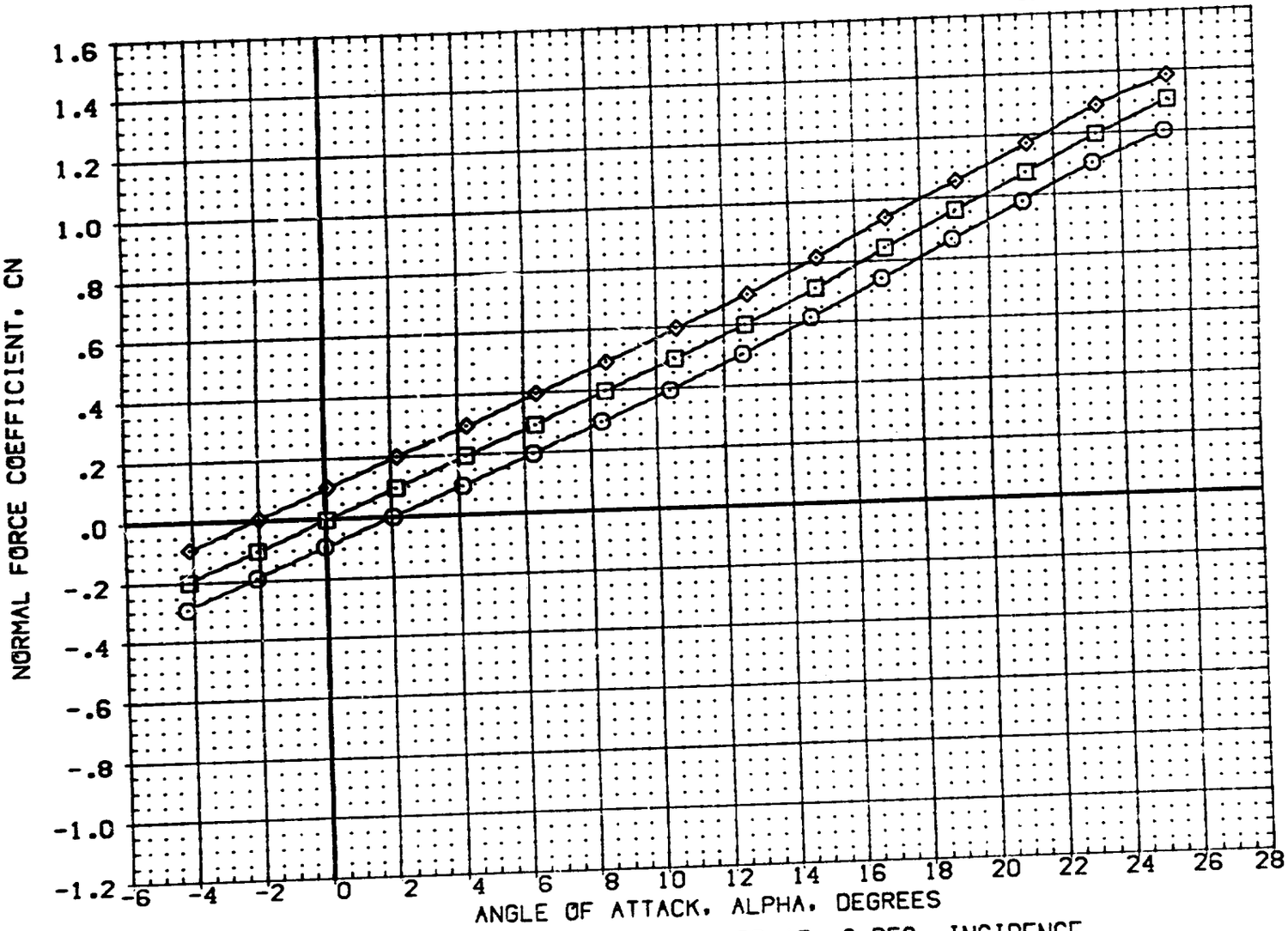


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

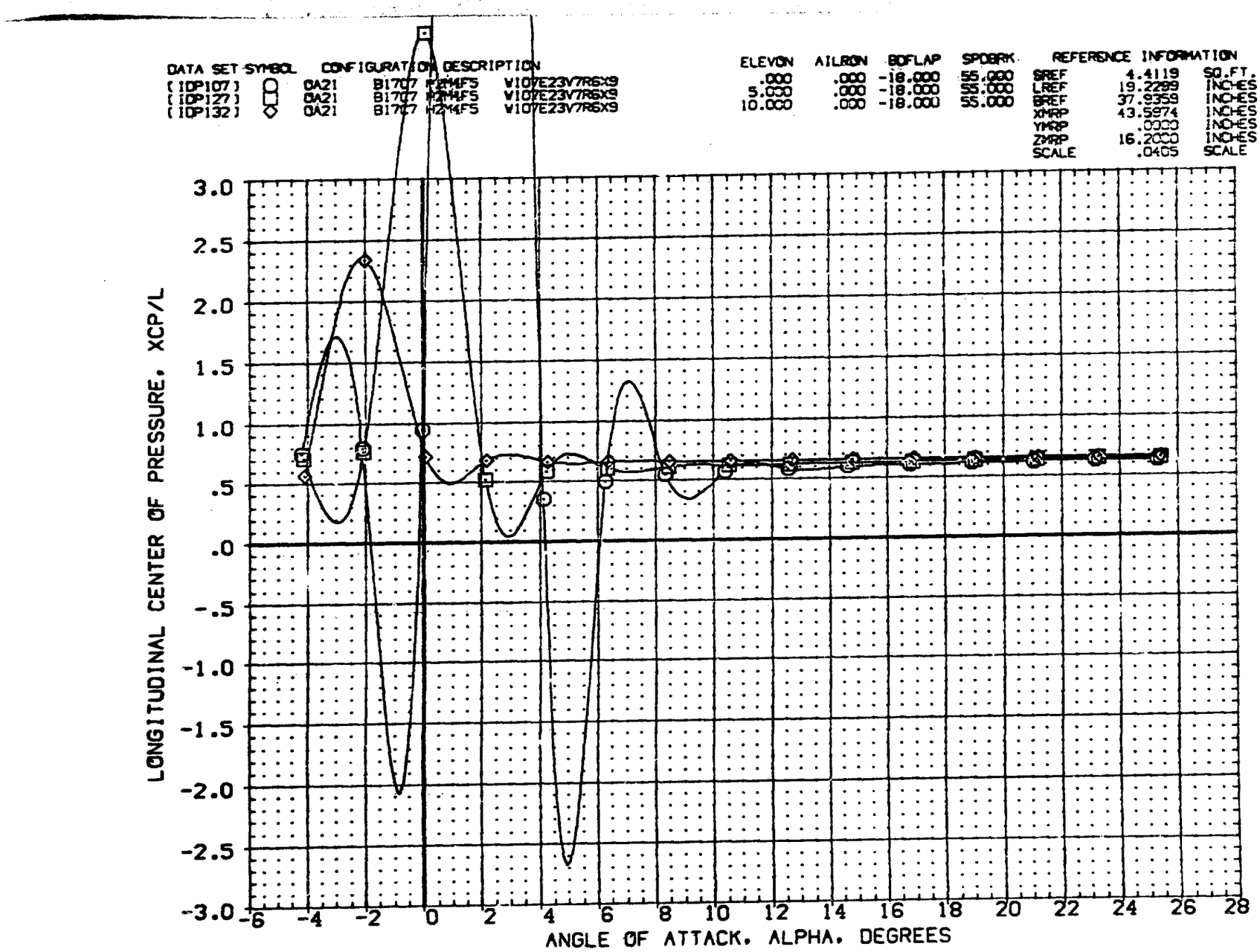


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP107)	○	0A21	B17C7 H2M4FS	W107E23V7R6X9
(IDP127)	□	0A21	B17C7 H2M4FS	W107E23V7R6X9
(IDP132)	◇	0A21	B17C7 H2M4FS	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

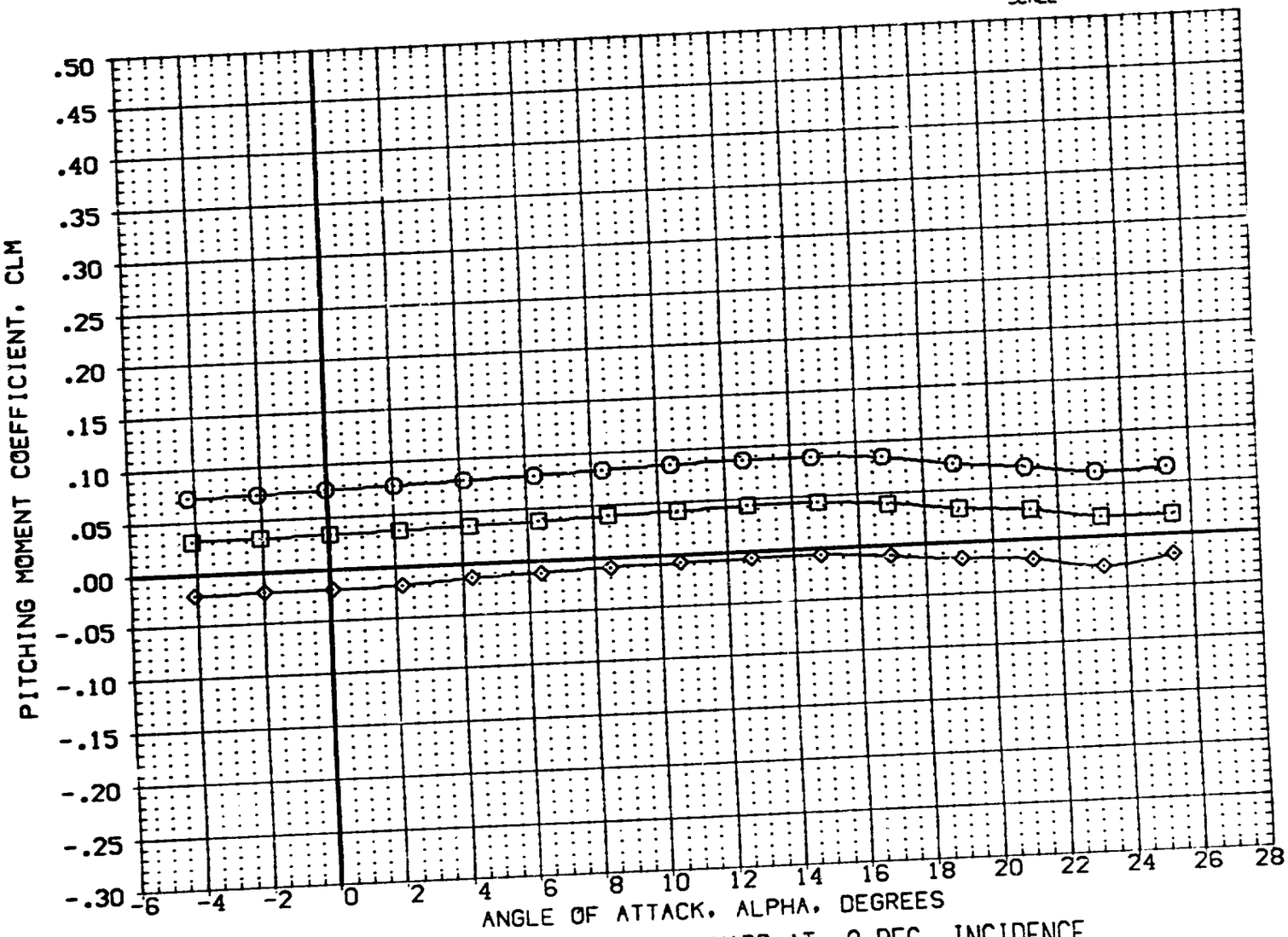


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[OOP132] O 0A21 B17C7 H2M4F5 V1C7E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP132) O 0A21 B17C7 H2M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.04C5	SCALE

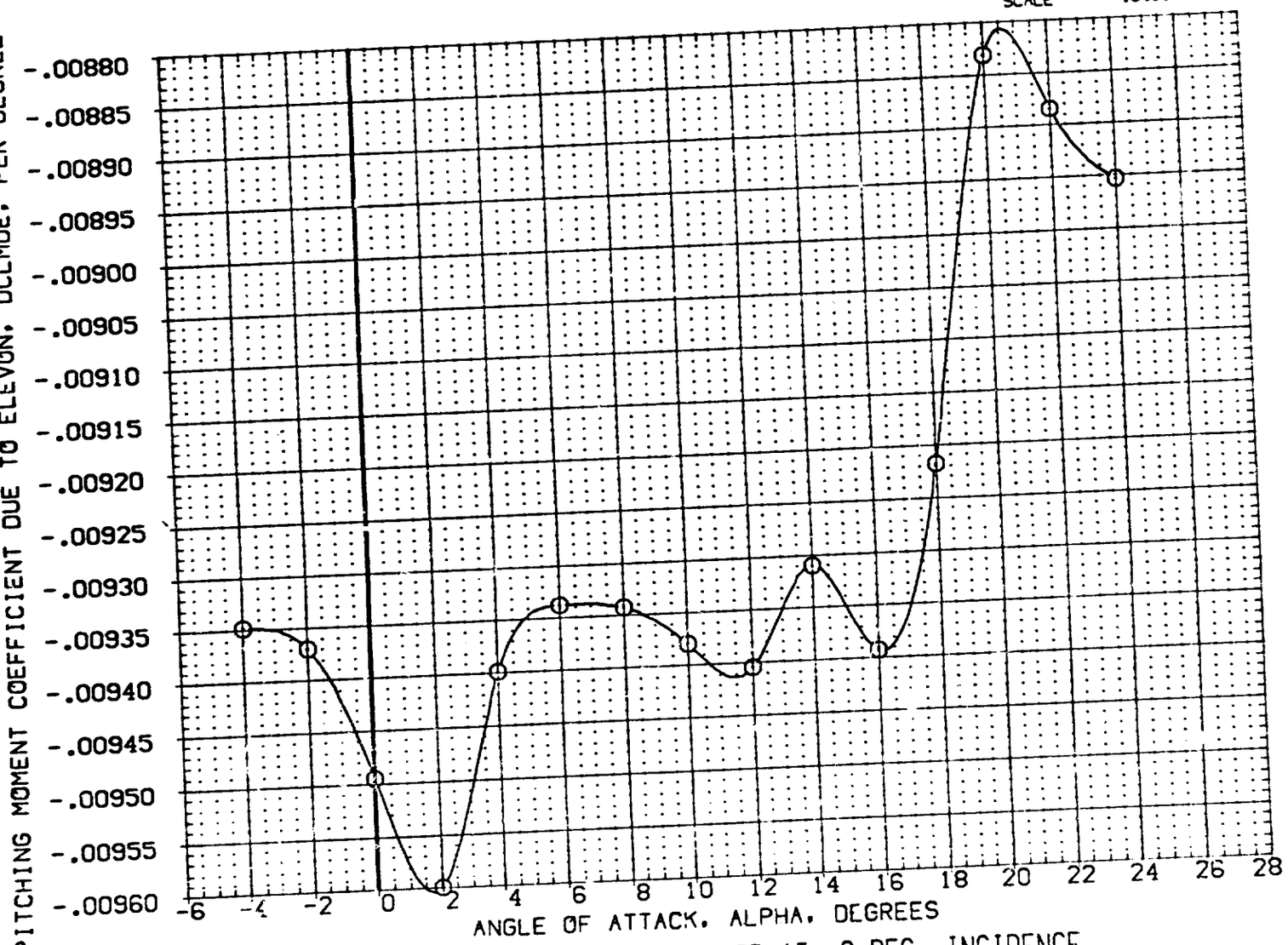


FIGURE 8 ELEVON EFFECTIVENESS WITH H2 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(1DP108)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9
(1DP128)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9
(1DP131)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

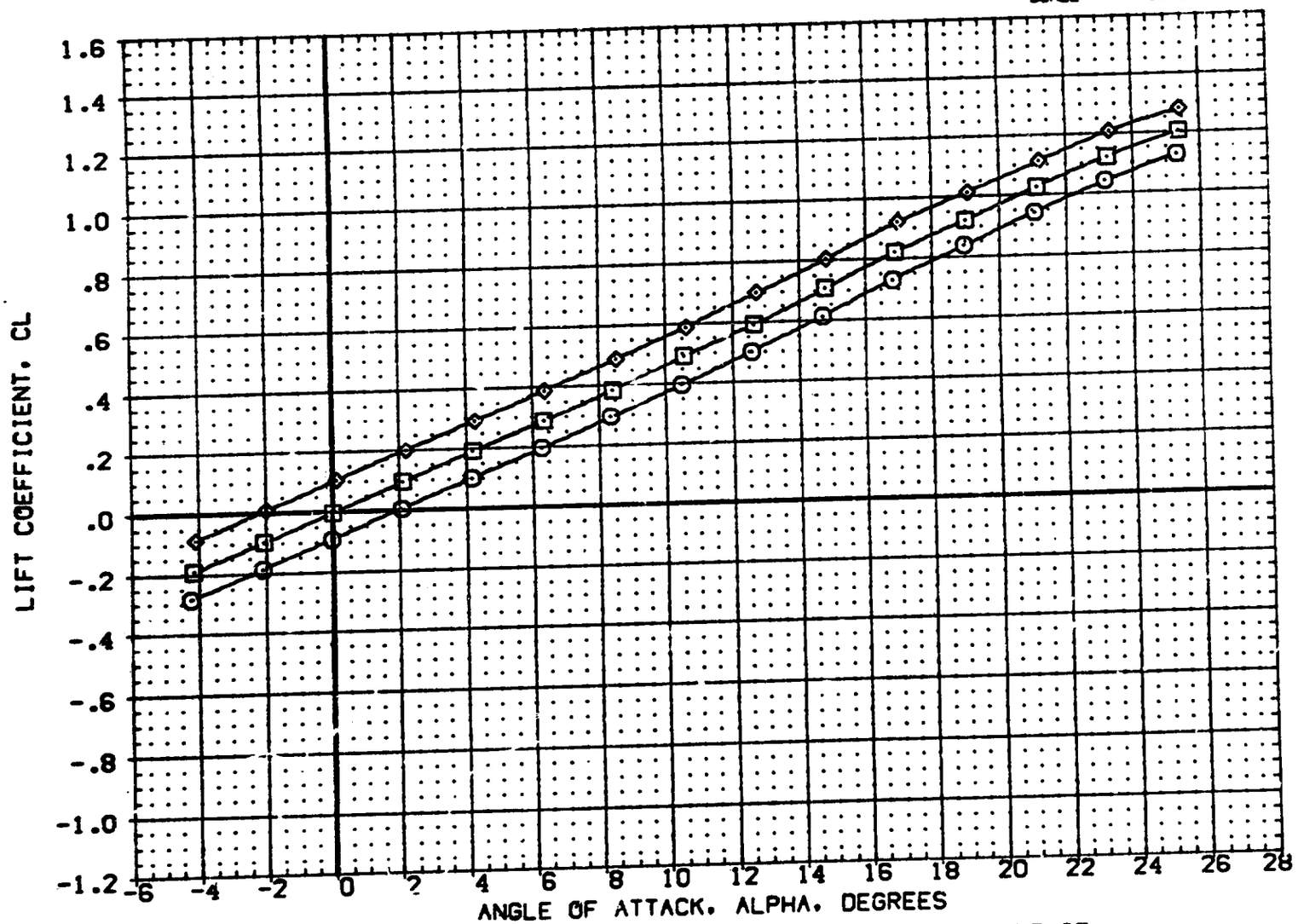


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP100)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9
(IDP128)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9
(IDP131)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4113	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

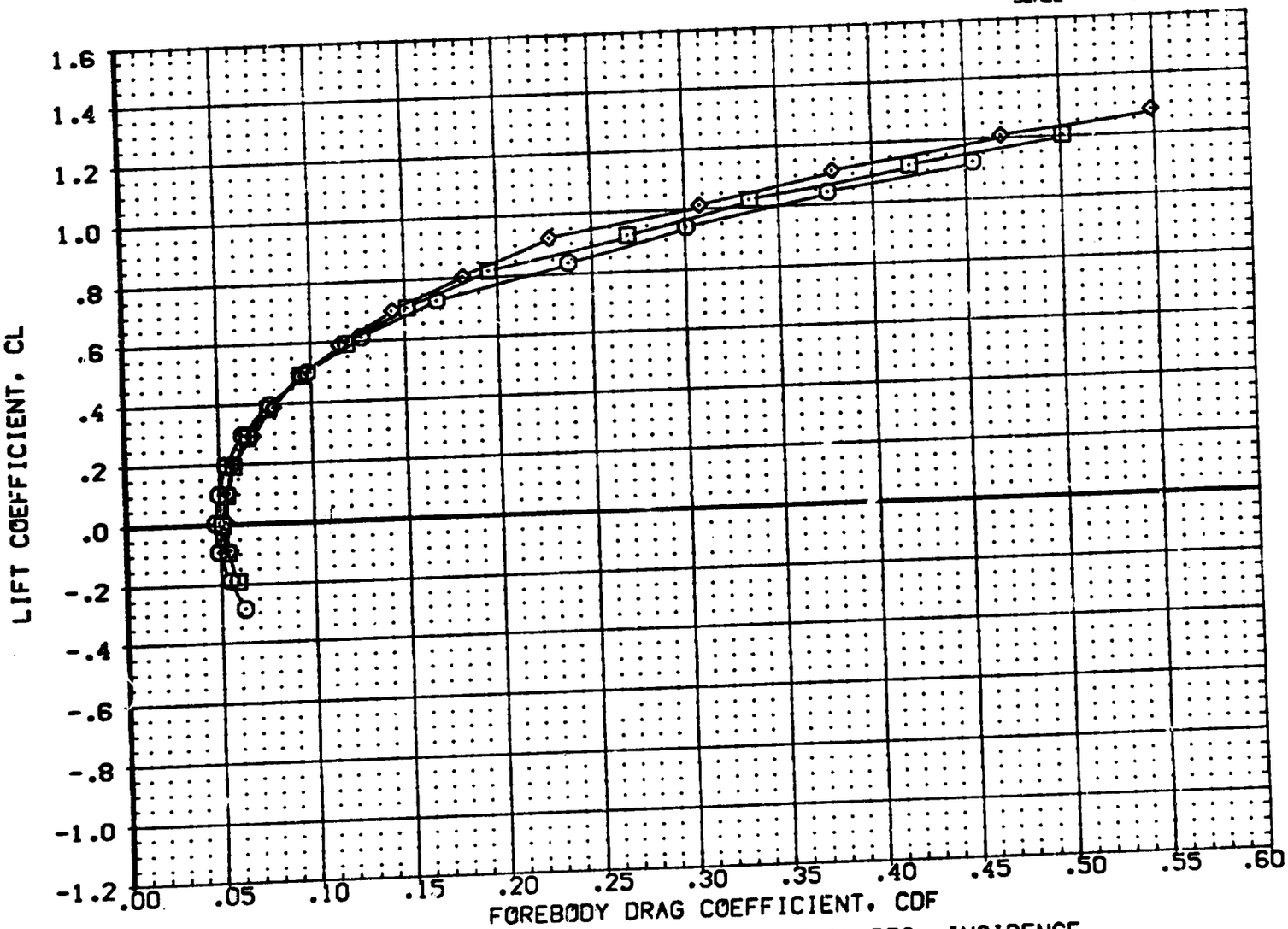


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP108)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP128)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP131)	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPOIRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2239	INCHES
BREF	37.9398	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

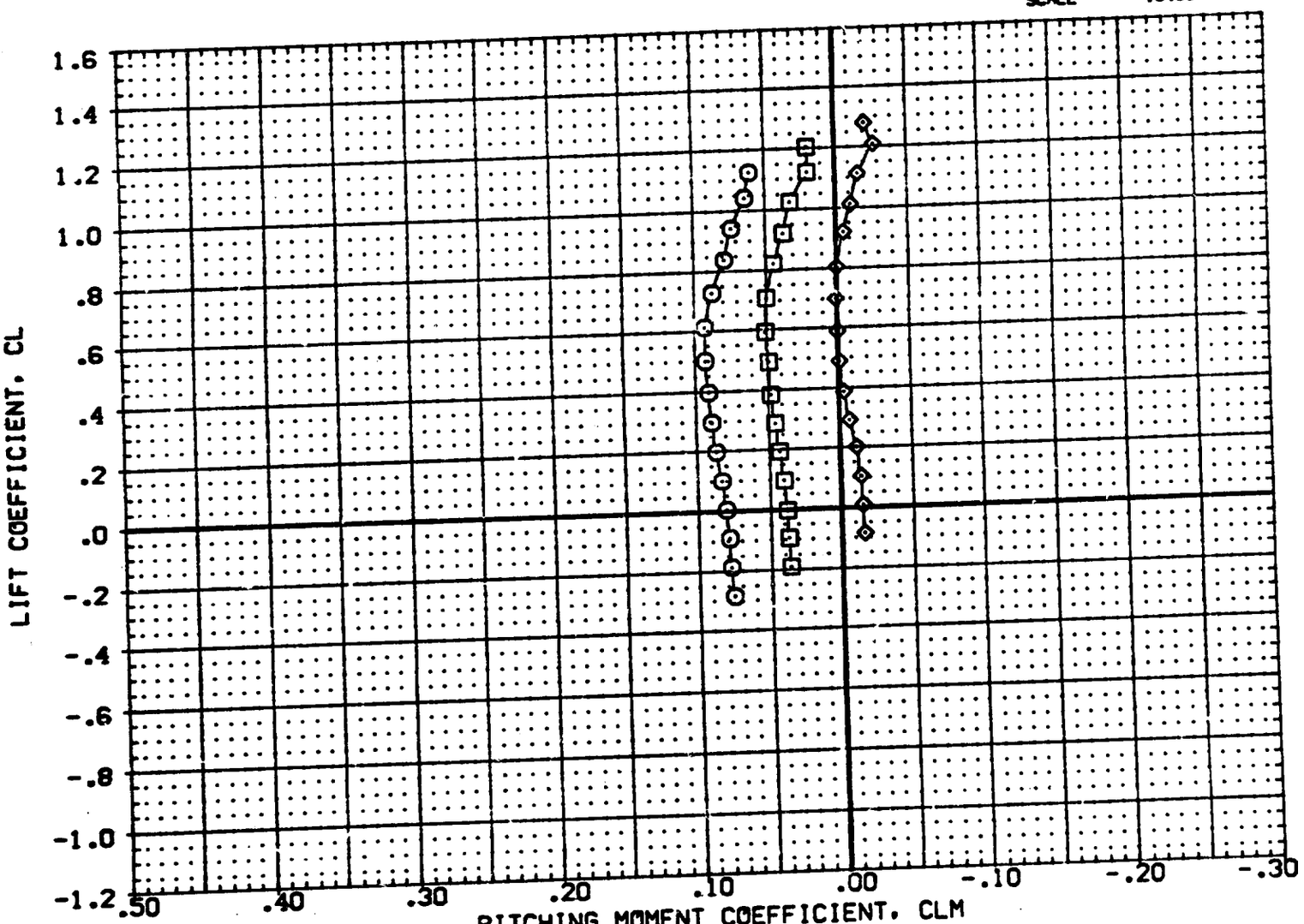


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP103)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP128)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP131)	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

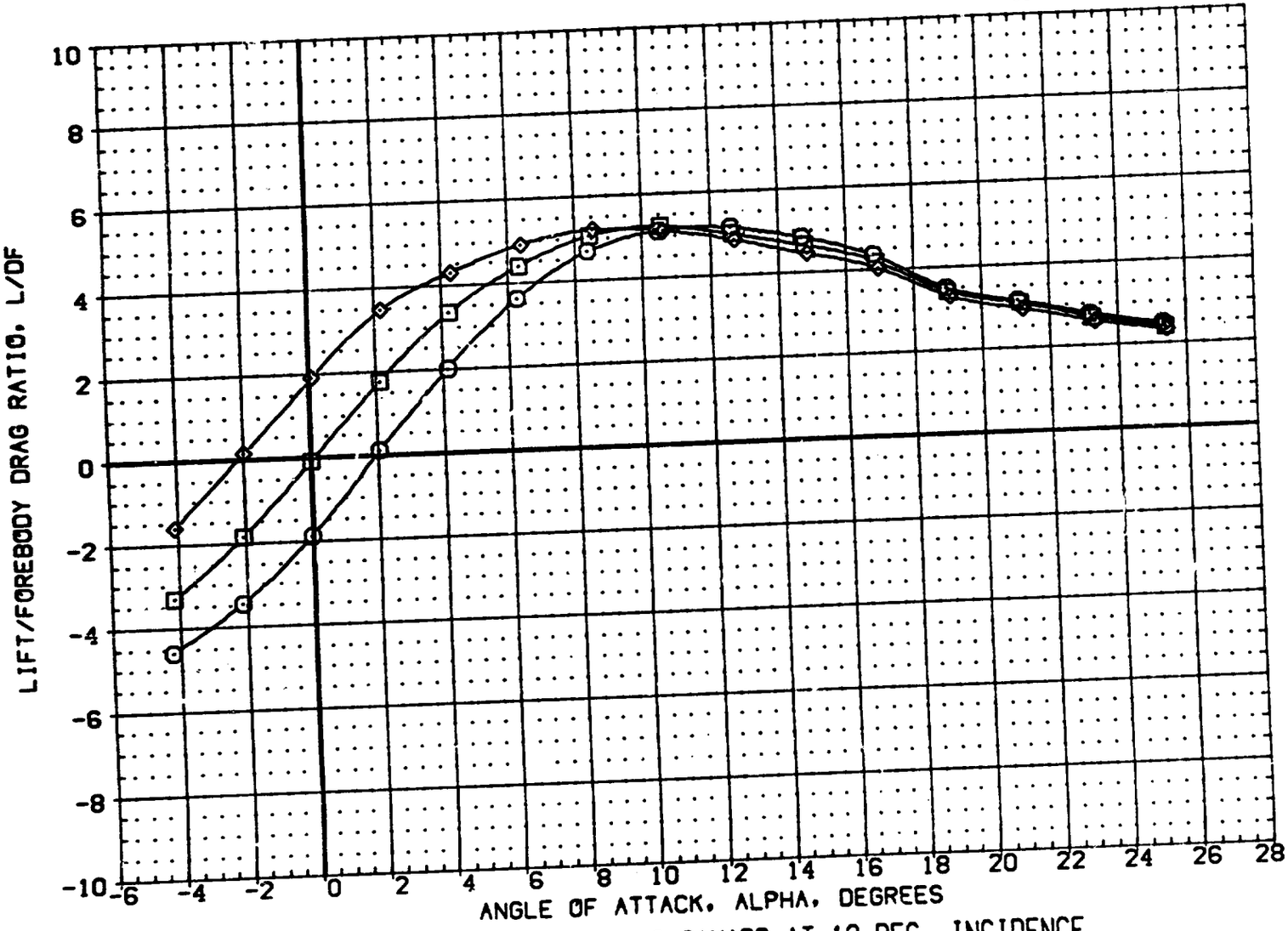


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP168)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP128)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP131)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2288	INCHES
BREF	37.9359	INCHES
XMRP	43.8974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

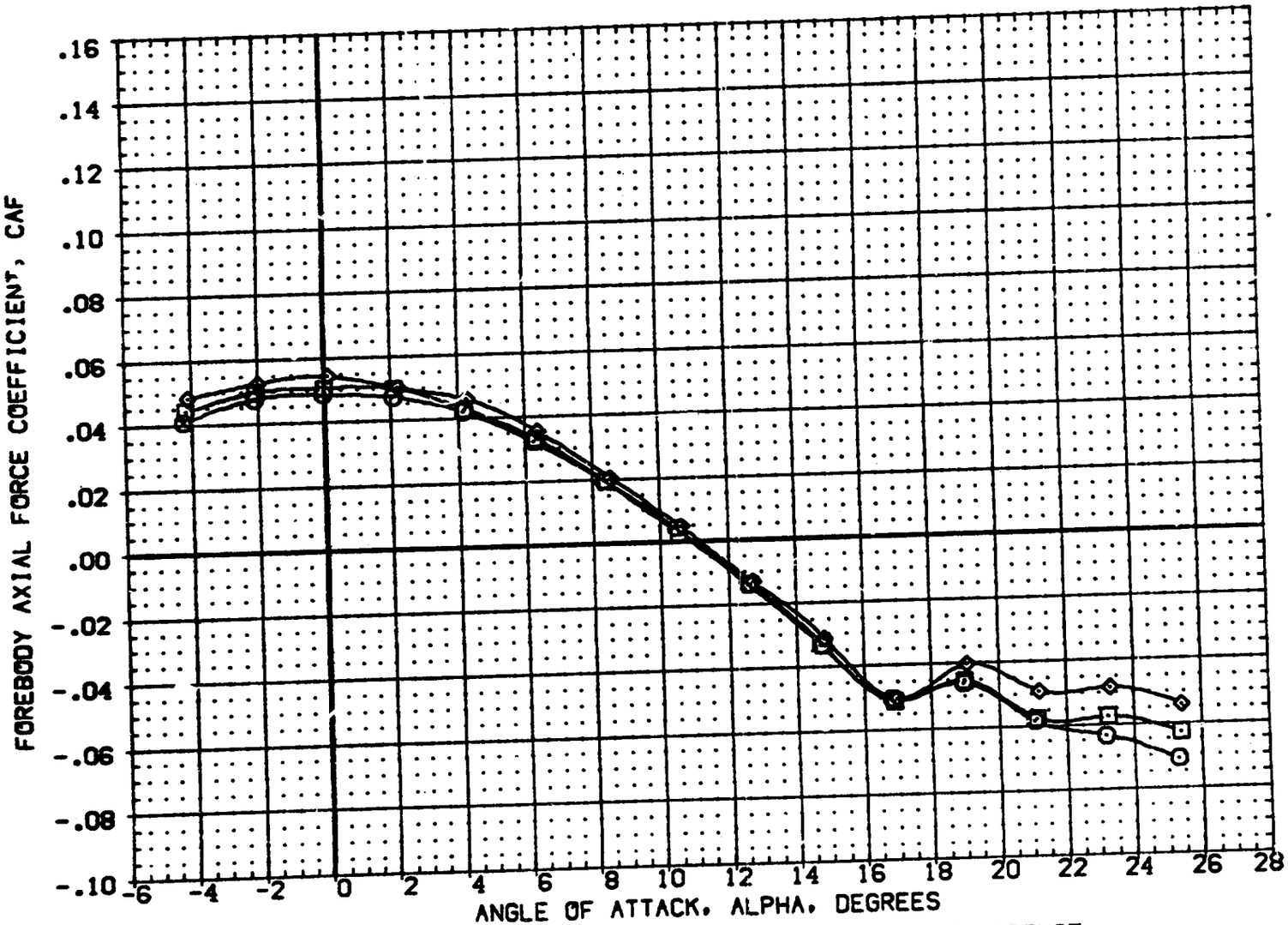


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP108)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9
(IDP128)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9
(IDP131)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

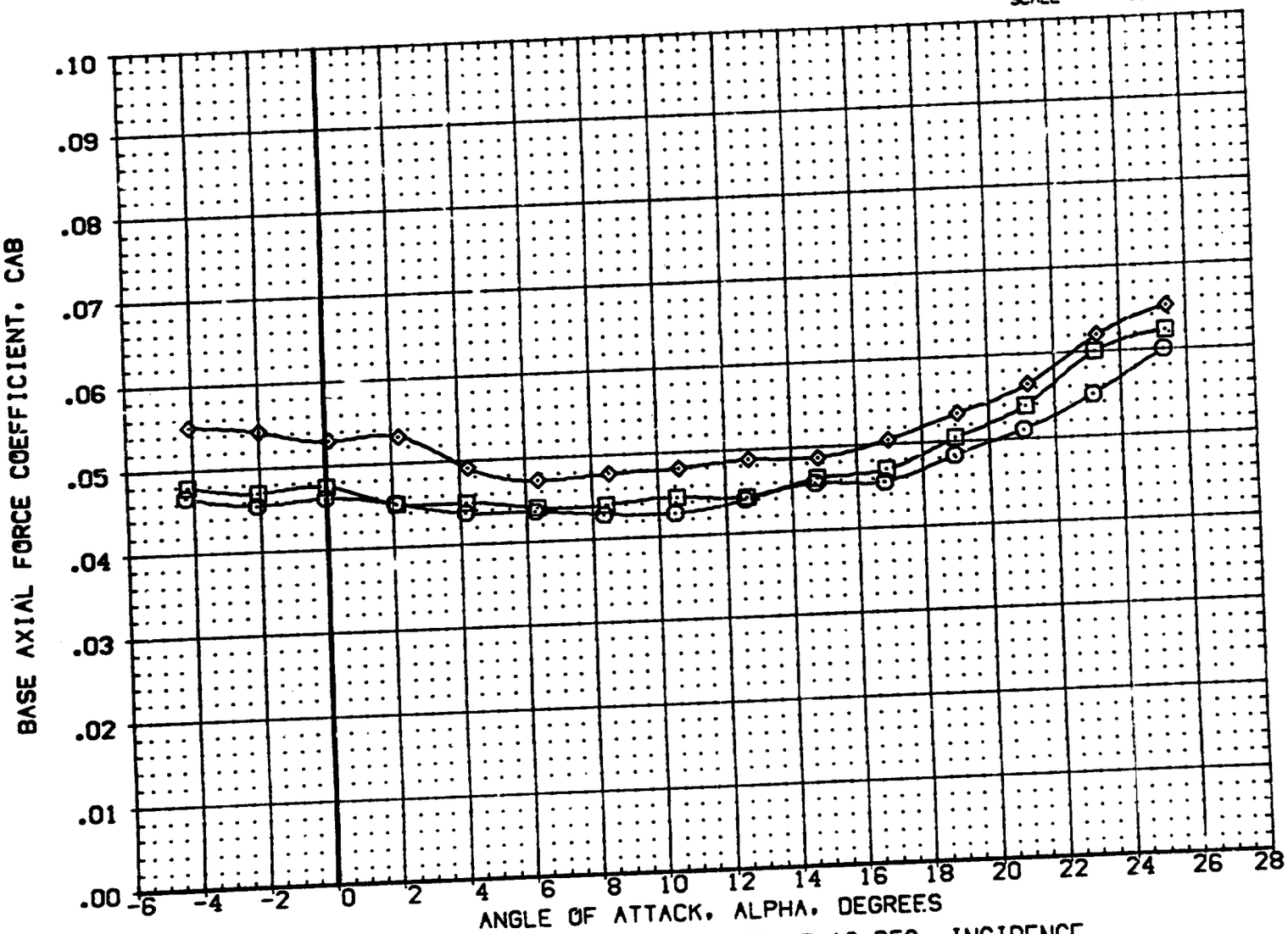


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[illegible]		0A21	B17C7 H2M4F5	V107E23V7R6X9
[illegible]		0A21	B17C7 H2M4F5	V107E23V7R6X9
[illegible]	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

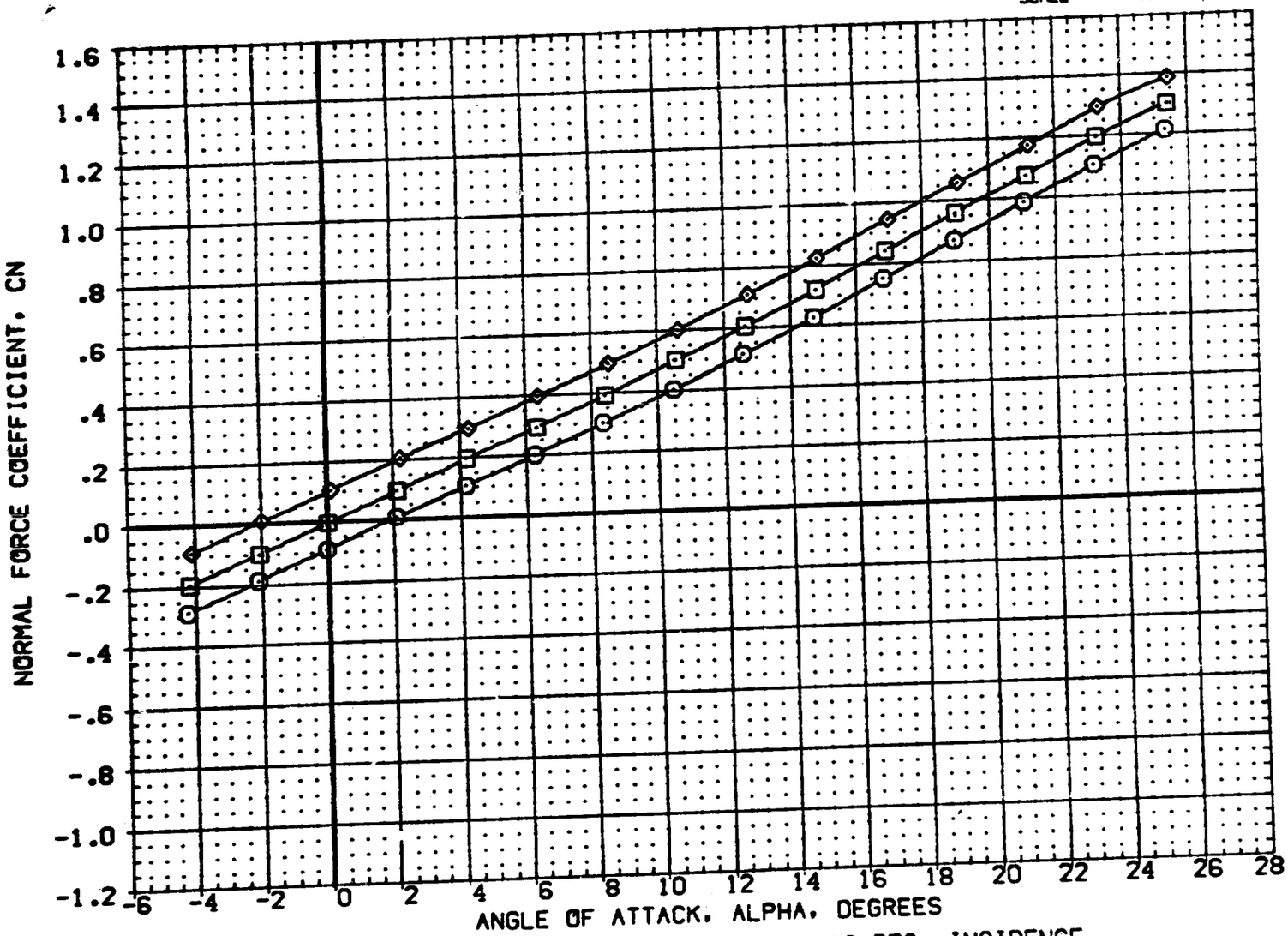


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

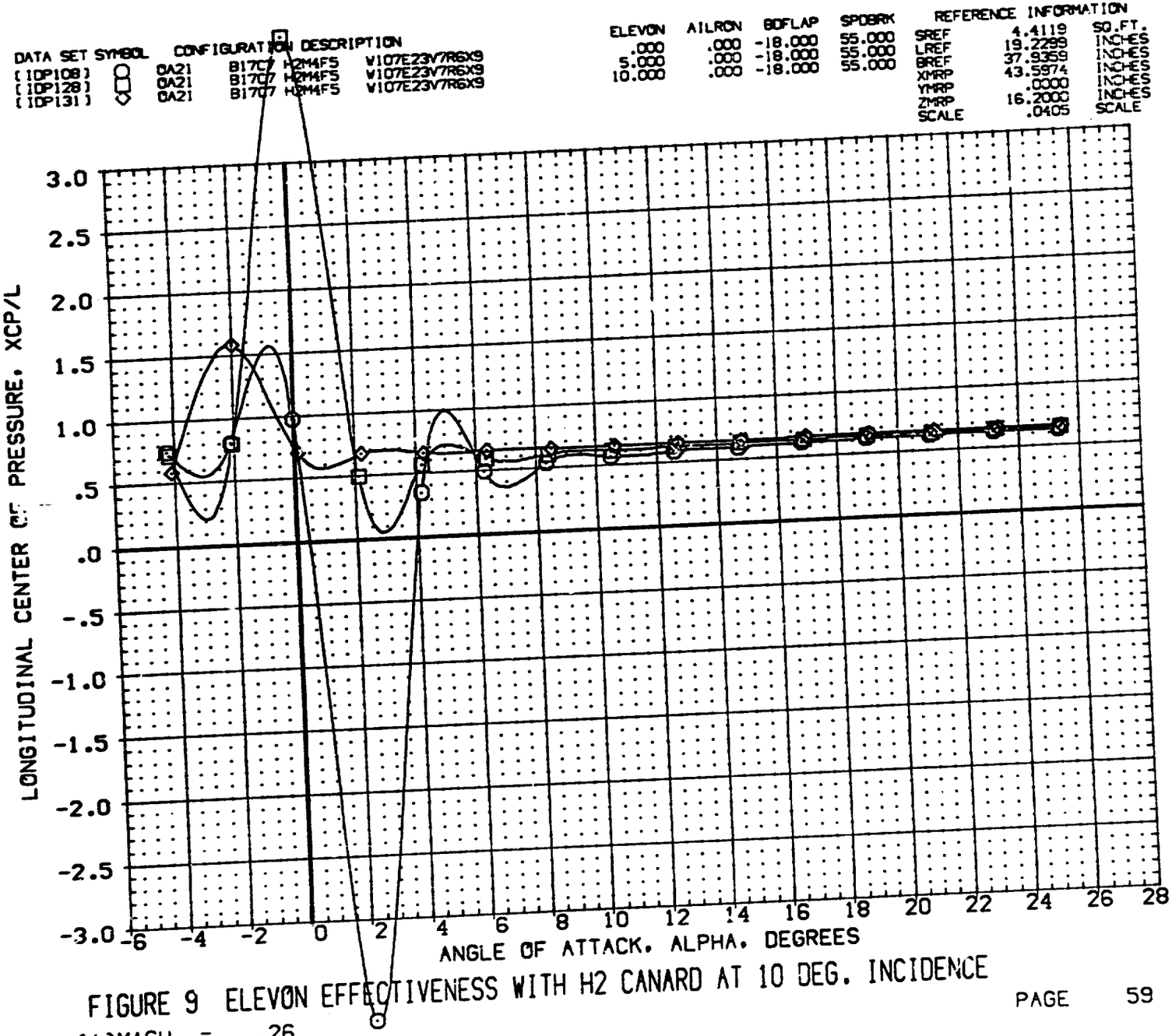


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP108)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP128)	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP131)	0A21	B17C7 H2M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

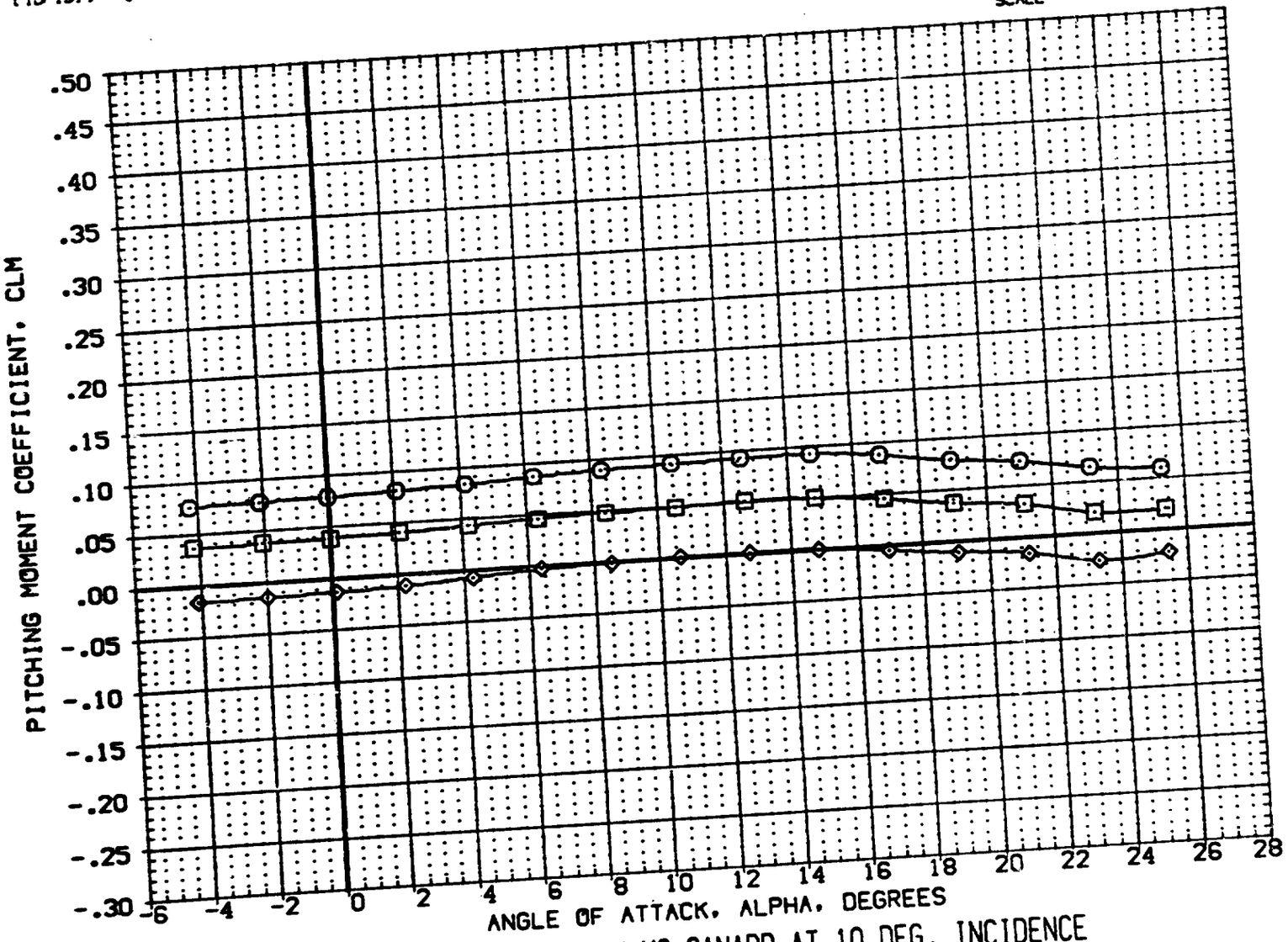


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(OOP131) ○	0A21 B17C7 H2M4F5 W107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP131) ○ 0A21 B17C7 H2M4F5 W107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

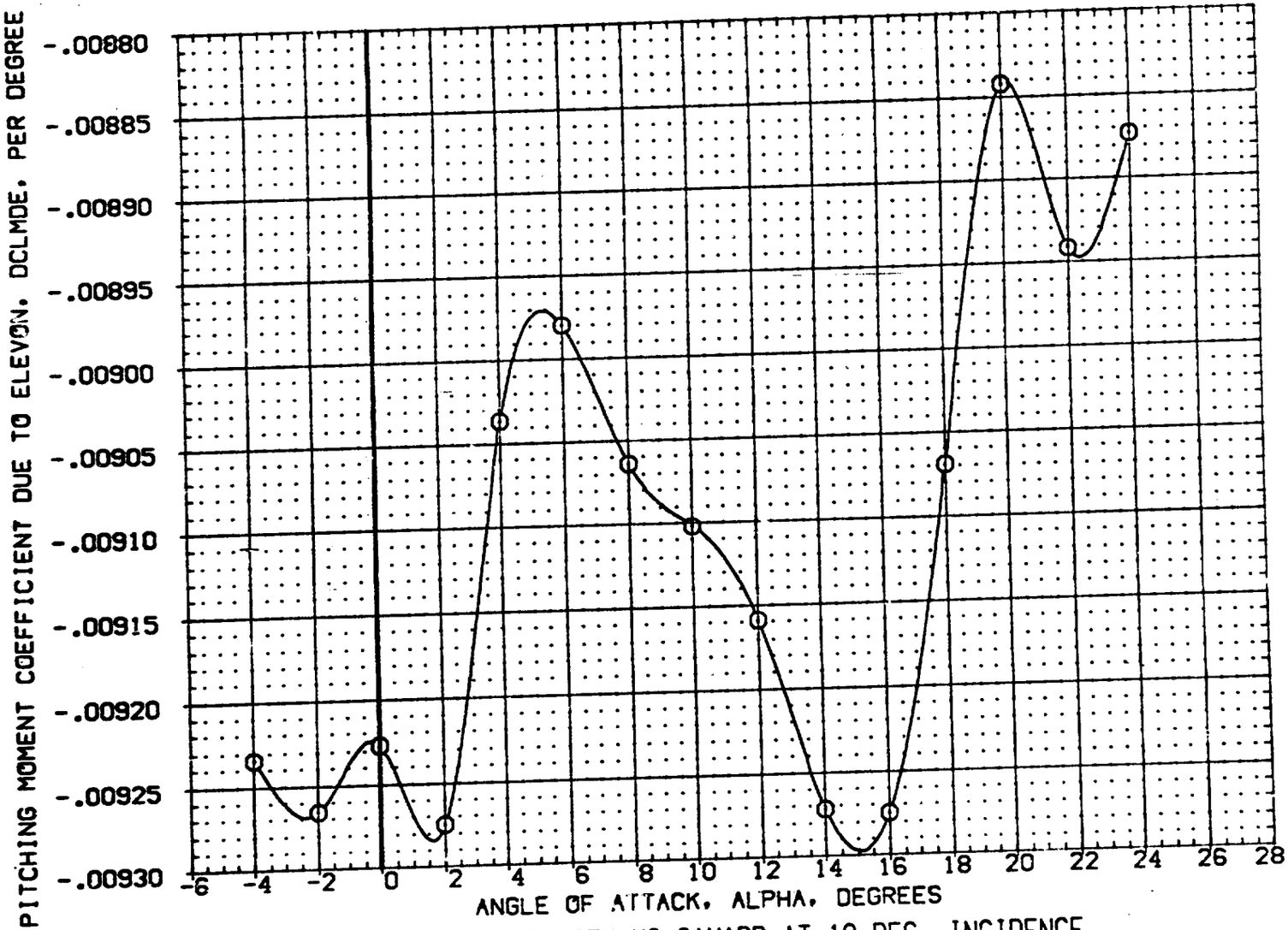


FIGURE 9 ELEVON EFFECTIVENESS WITH H2 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP109)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9
(IDP129)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(IDP130)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9

ELEVON	AILERON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

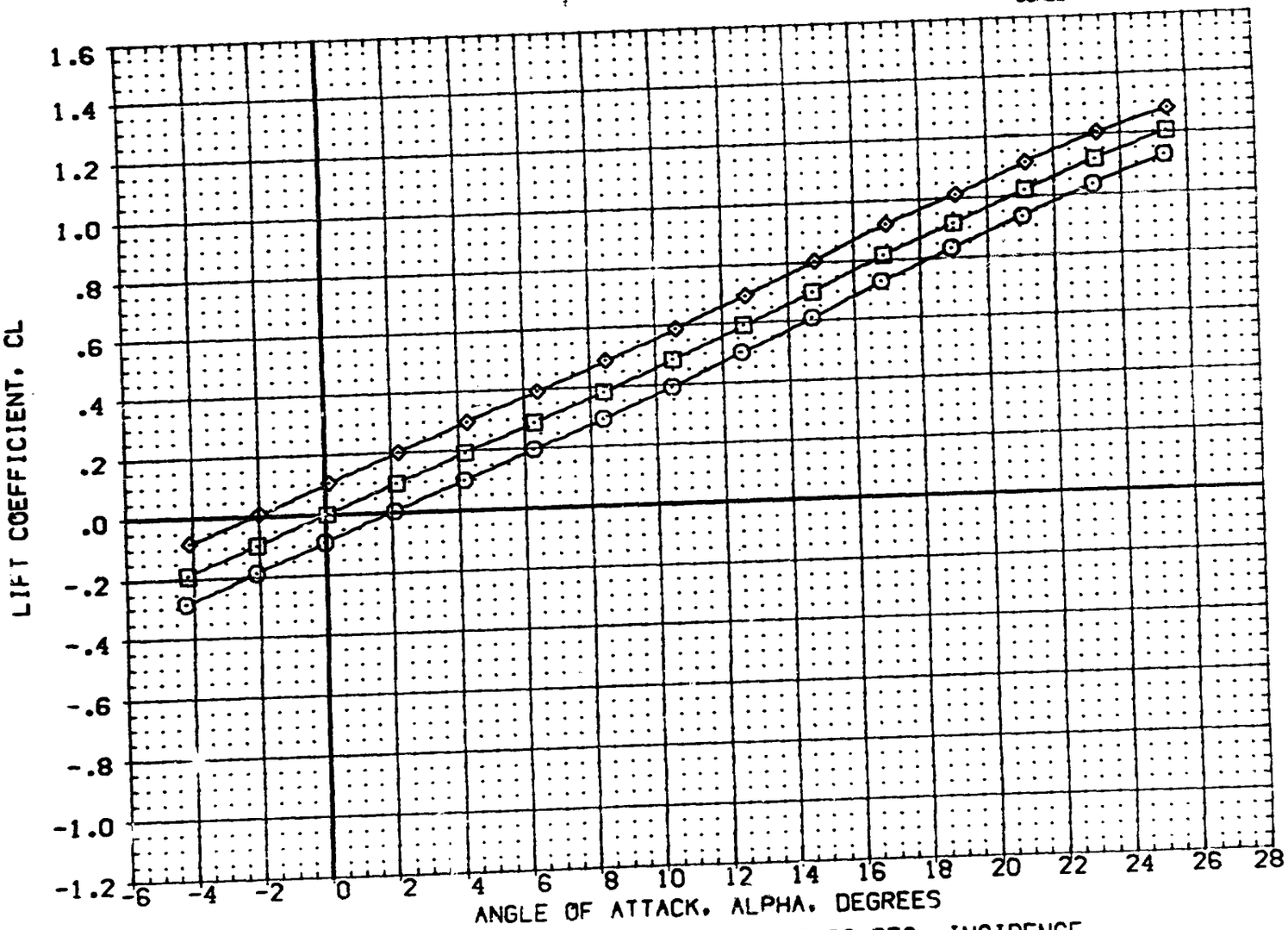


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(ID=108)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9
(ID=129)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(ID=130)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

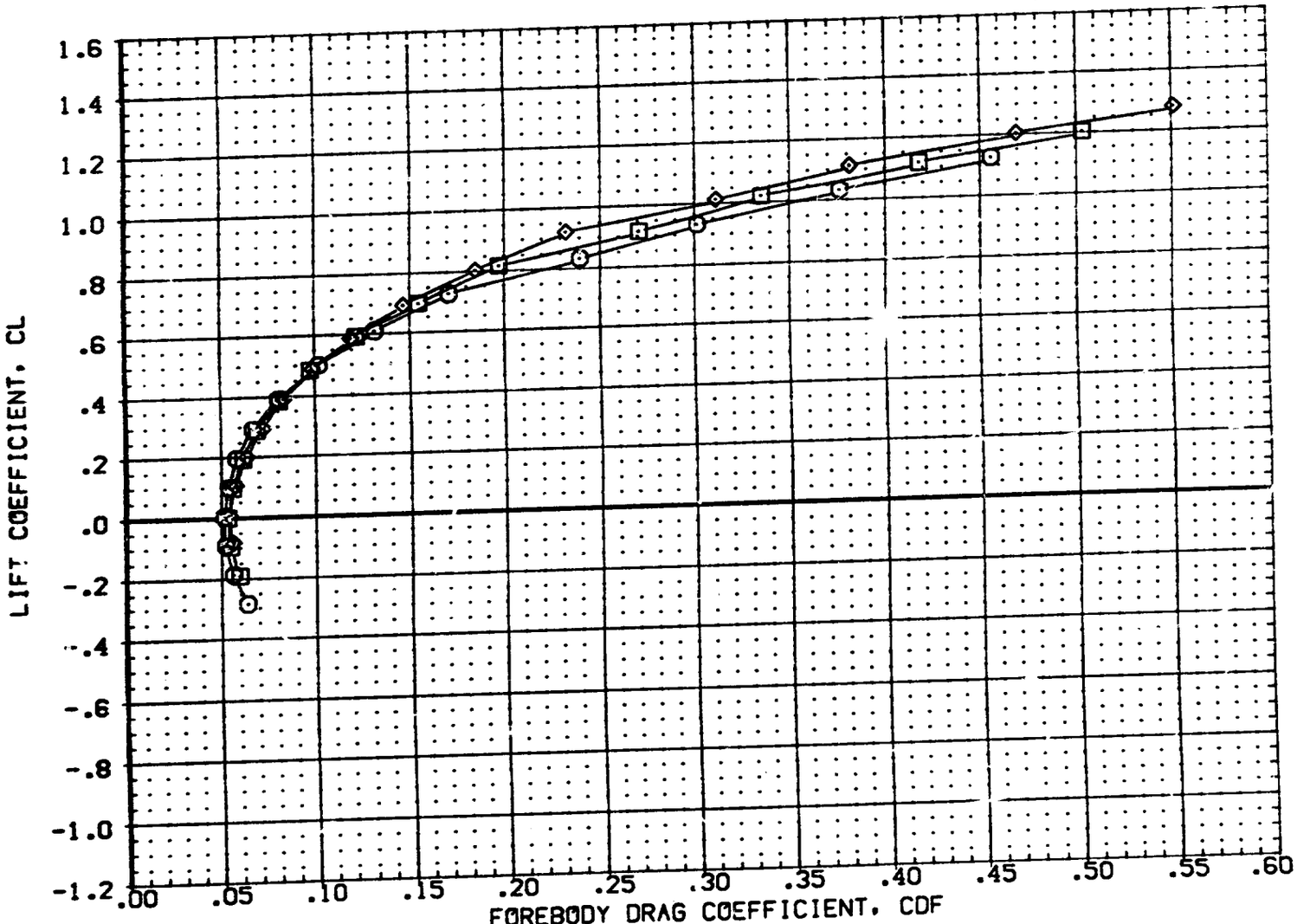


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(1DP109)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(1DP129)	◁	0A21	B17C7 H2M4F5	W107E23V7R6X9
(1DP130)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

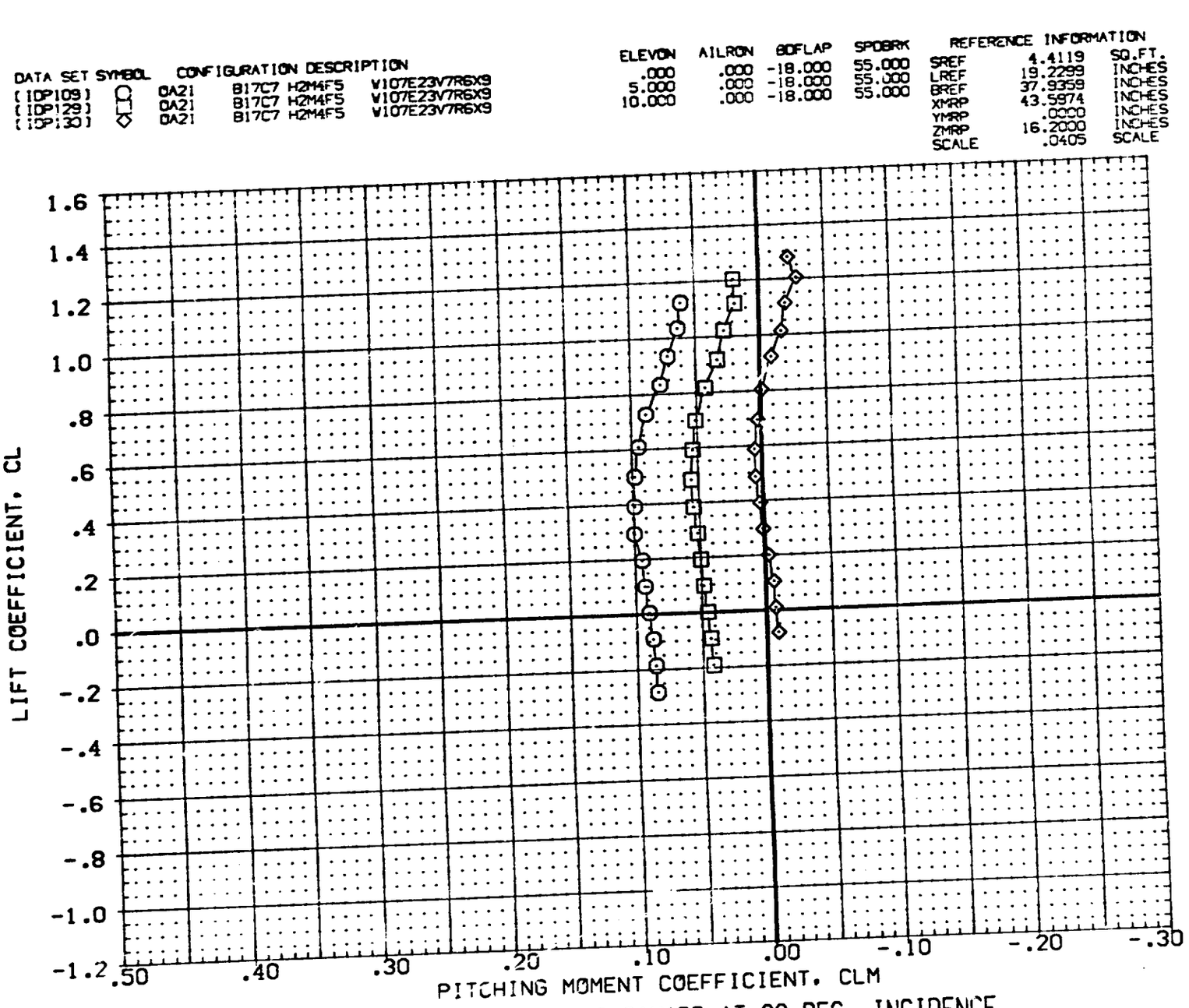


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP108]	○	OA21	B17C7	H2M4F5	V107E23V7R6X9
[IDP129]	□	OA21	B17C7	H2M4F5	V107E23V7R6X9
[IDP130]	◇	OA21	B17C7	H2M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9059	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

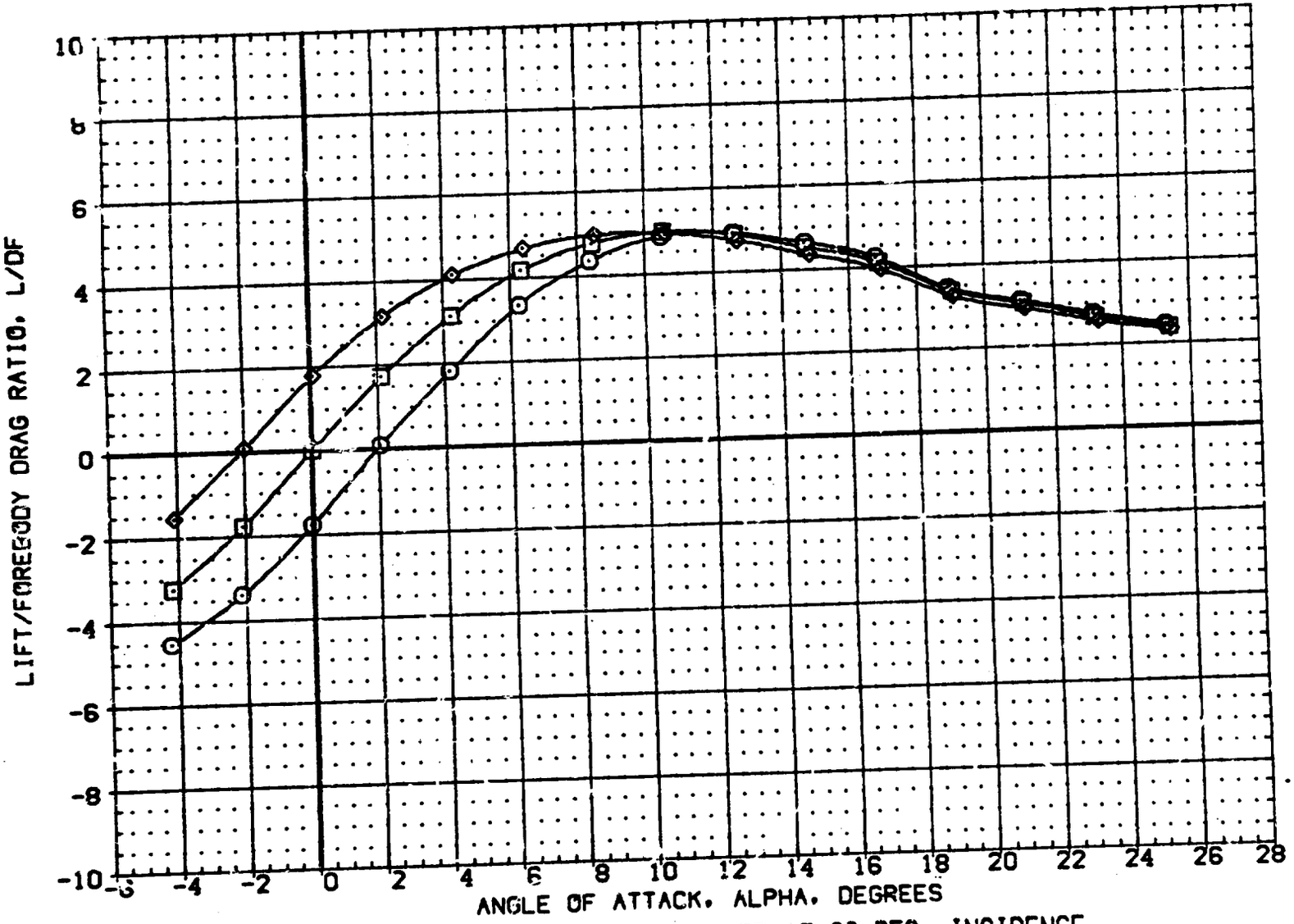


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(DP109)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(DP129)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9
(DP130)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

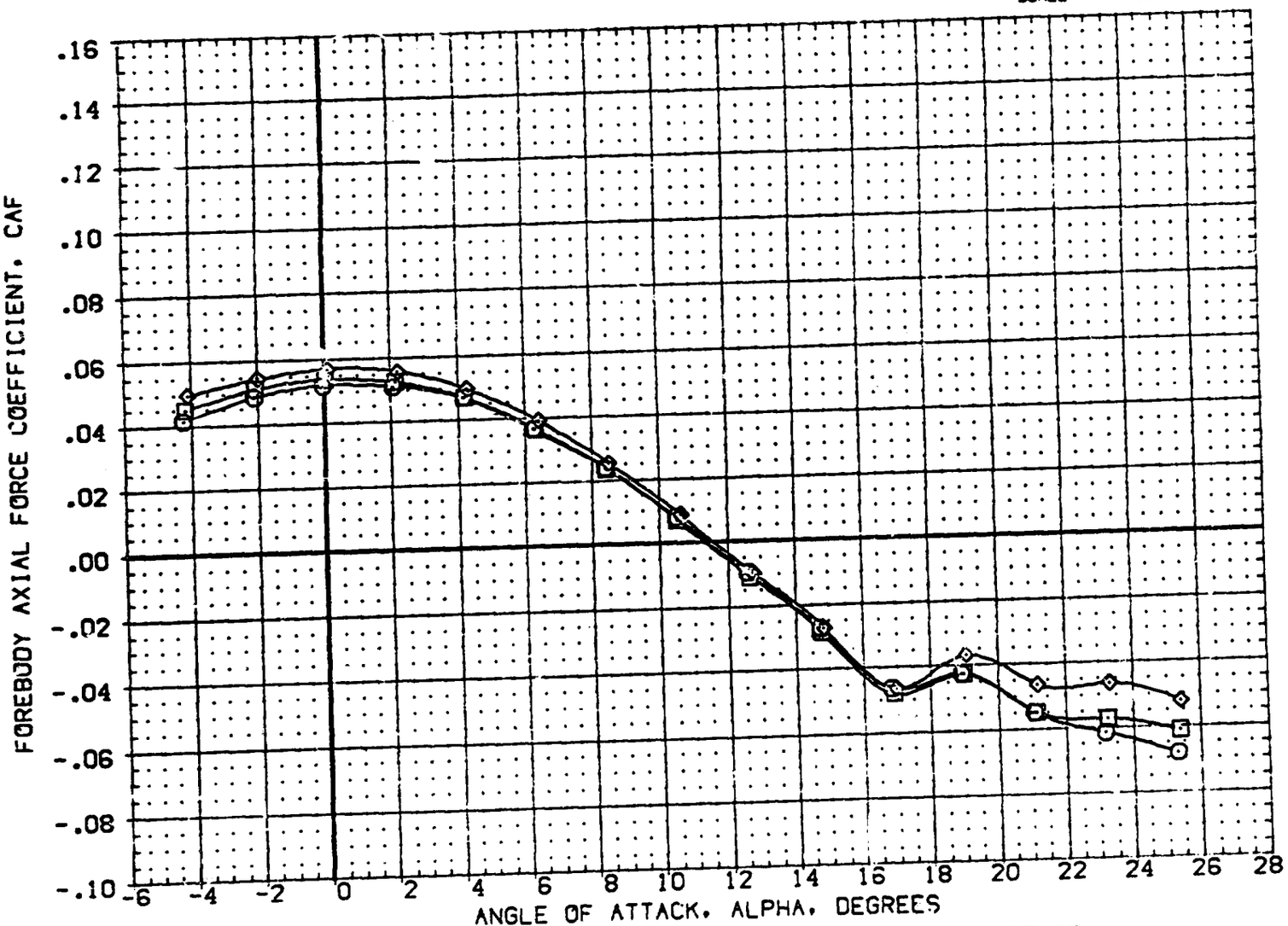


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(109)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(129)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	5.000	.000	-18.000	55.000
(130)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

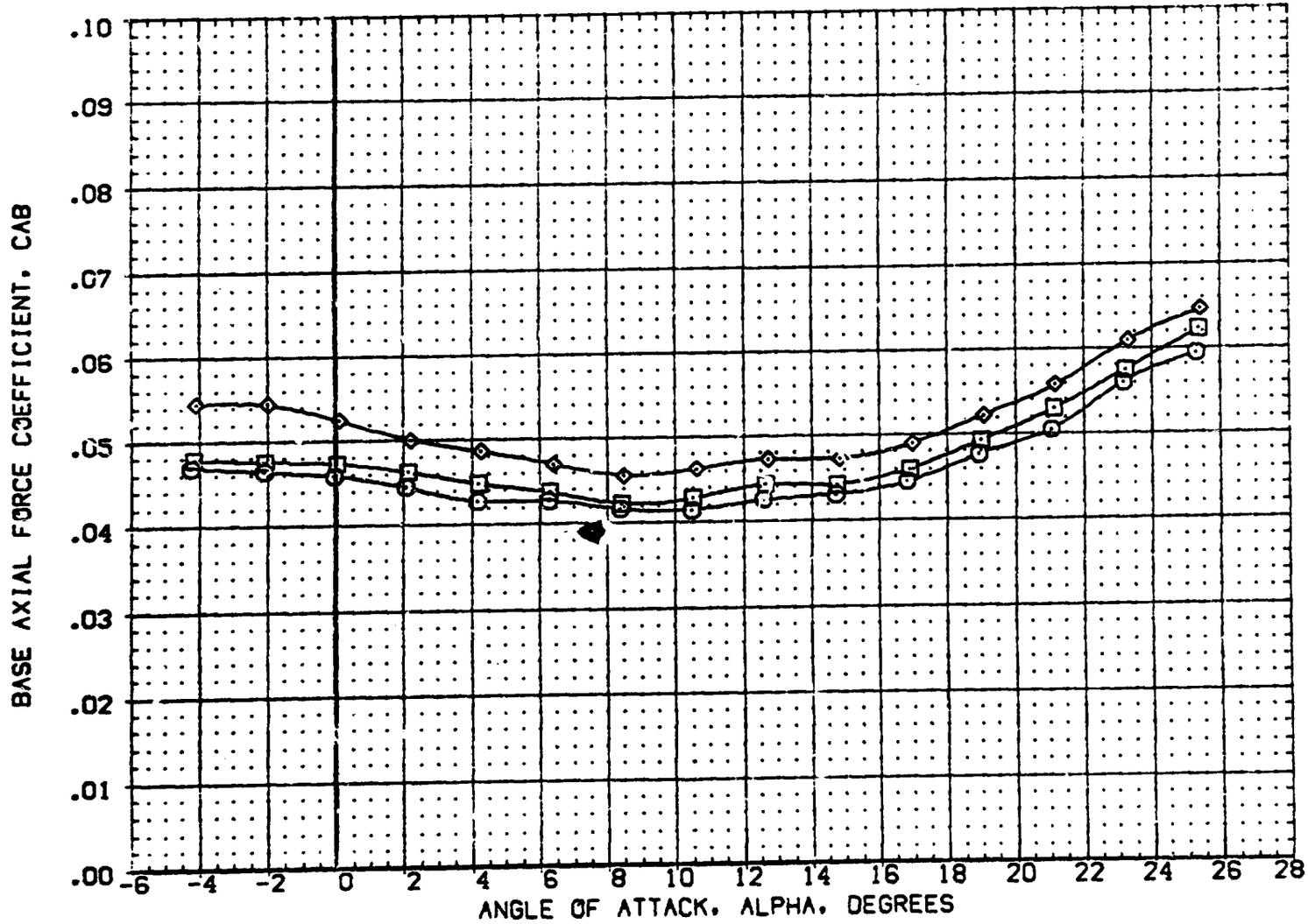


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(109108)	□	CA21	B:7C7 H2M4F5	W107E23V7R6X9
(109128)	○	CA21	B:7C7 H2M4F5	W107E23V7R6X9
(109130)	◇	CA21	B:7C7 H2M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
5.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	CALIBER

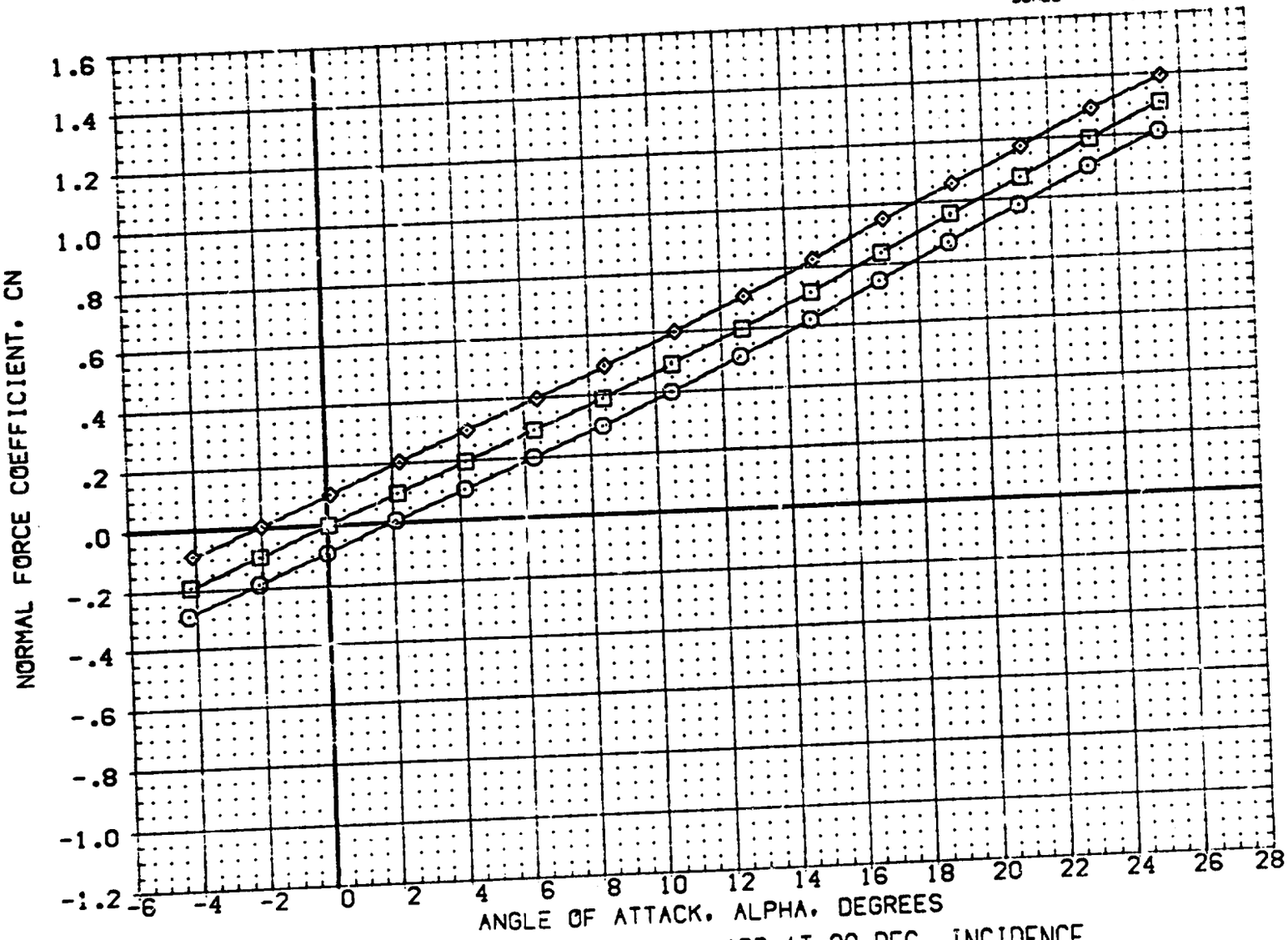


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

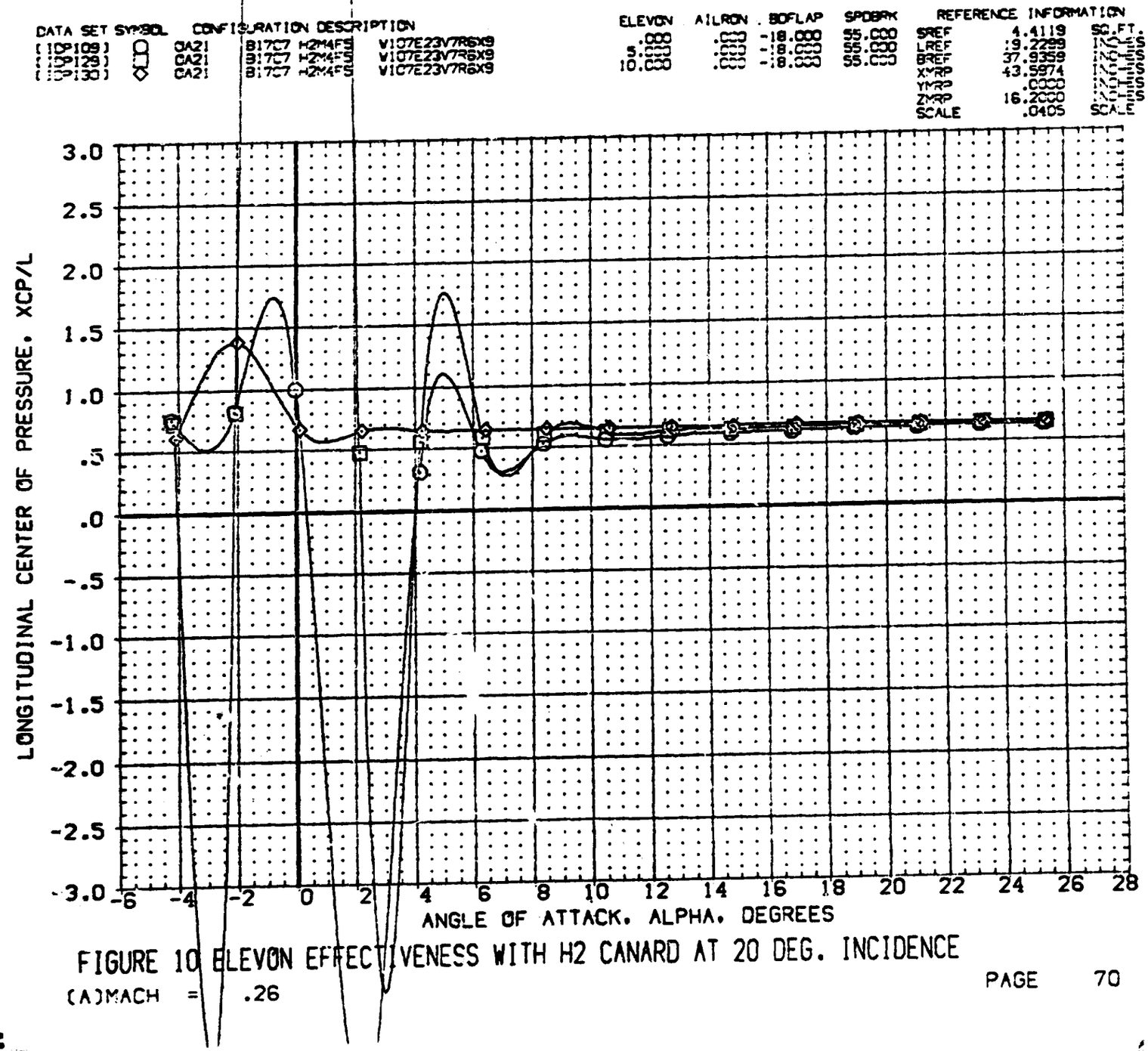


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BCFLAP	SPDBRK
[illegible]	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
[illegible]	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	5.000	.000	-18.000	55.000
[illegible]	○	0A21	B17C7 H2M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

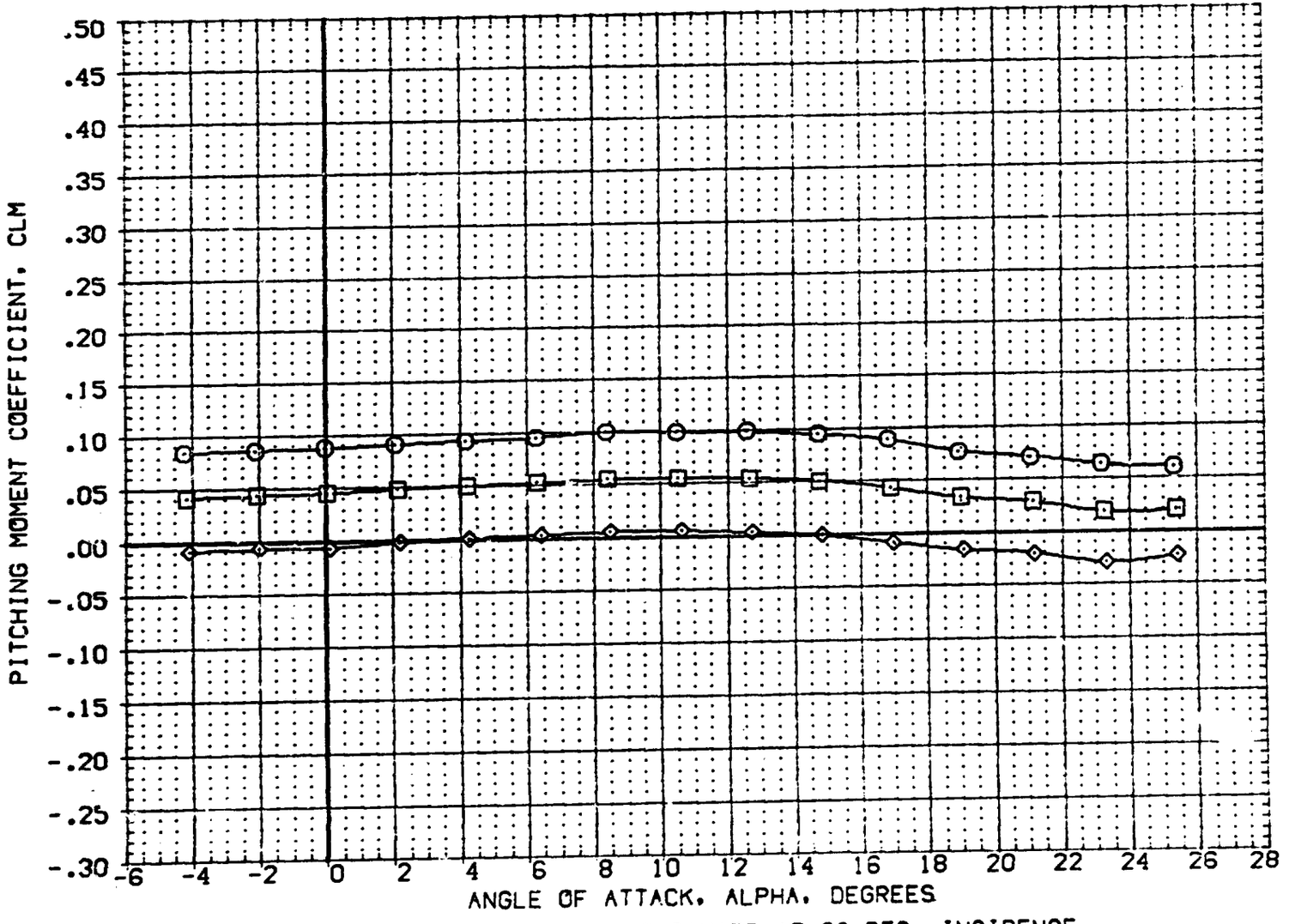


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[OOP130: O 0A2? B:7C7 H2M4F5 W107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP130) ○ OA21 B17C7 H2M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

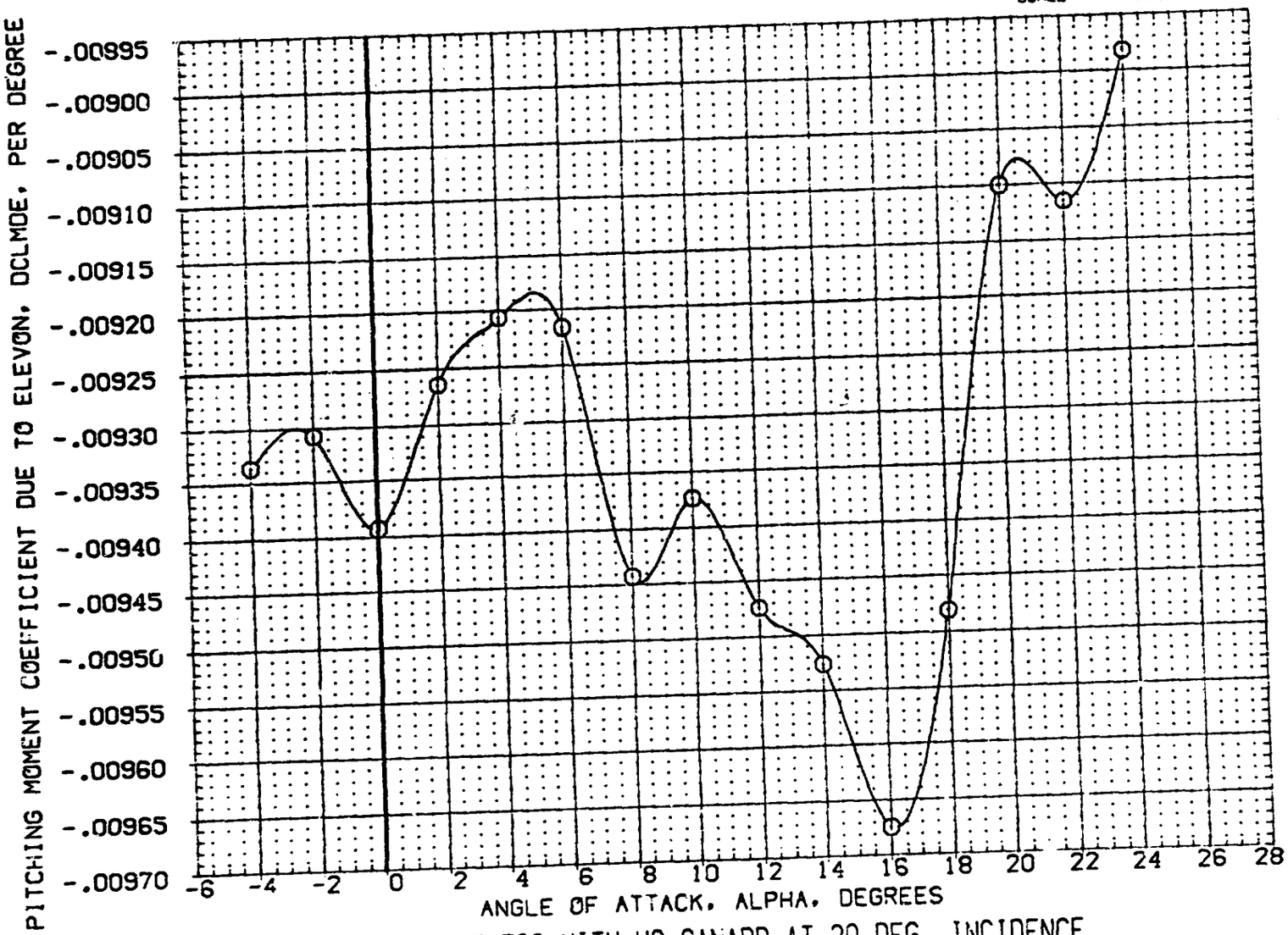


FIGURE 10 ELEVON EFFECTIVENESS WITH H2 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP112)		0A21	B17C7H[illegible]M4F5	V107E23V7R6X9
(XDP133)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

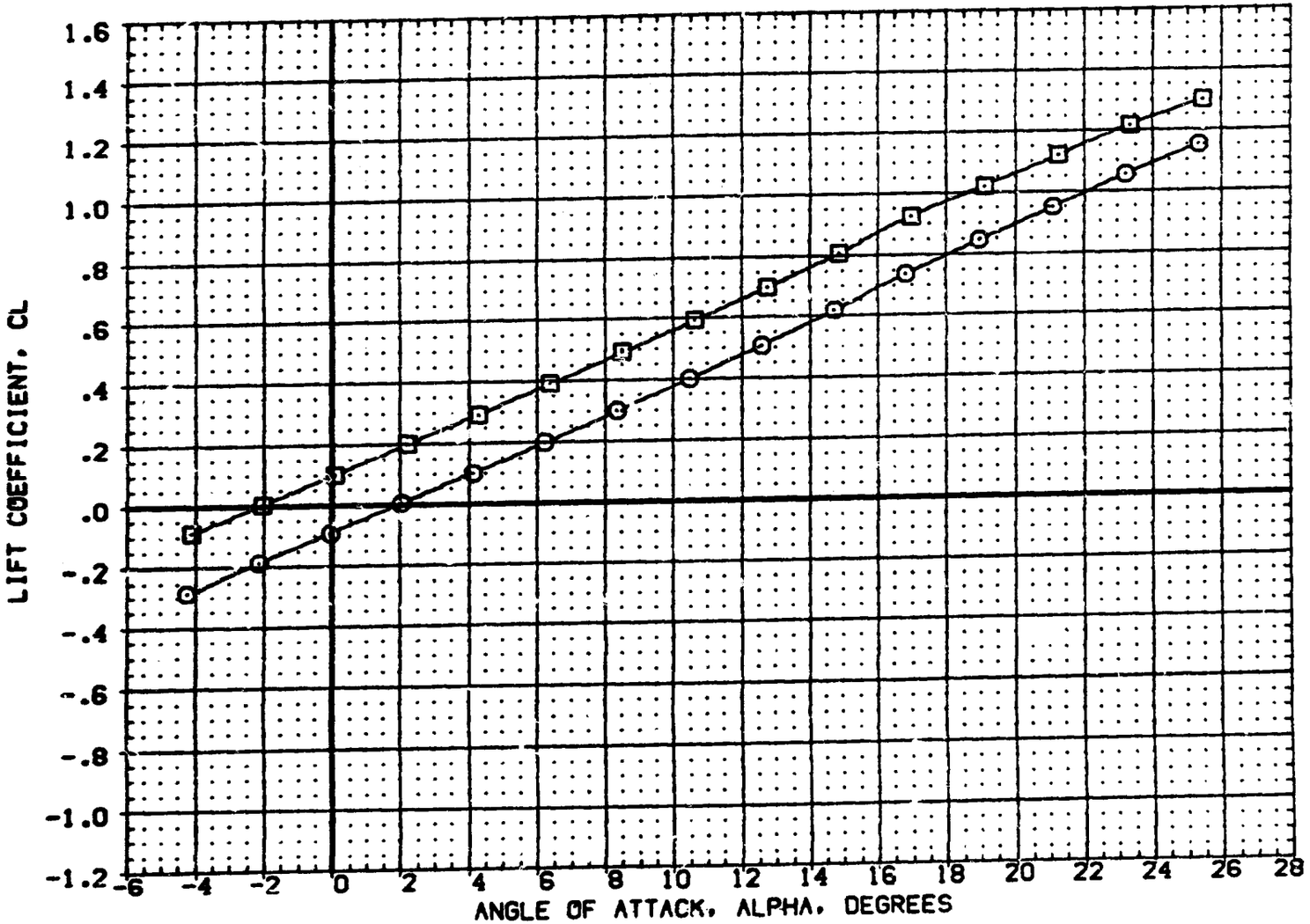


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP112)	0A21	B17C7H3M4F5	V107E23V7R6X9	
(XDP133)	0A21	B17C7H3M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRF	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

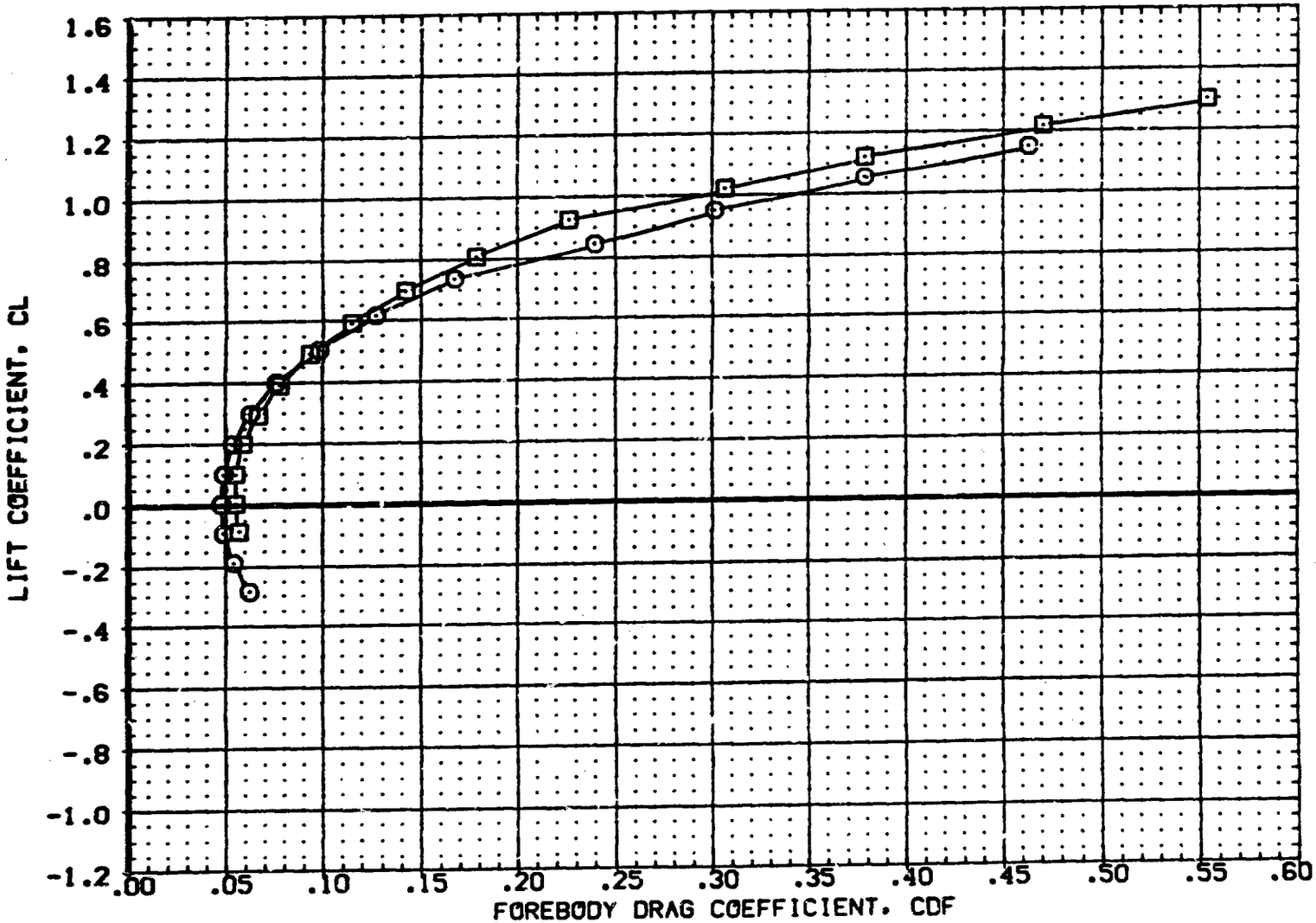


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
(XDP112)		0A21	B17C7H3M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(XDP139)		0A21	B17C7H3M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

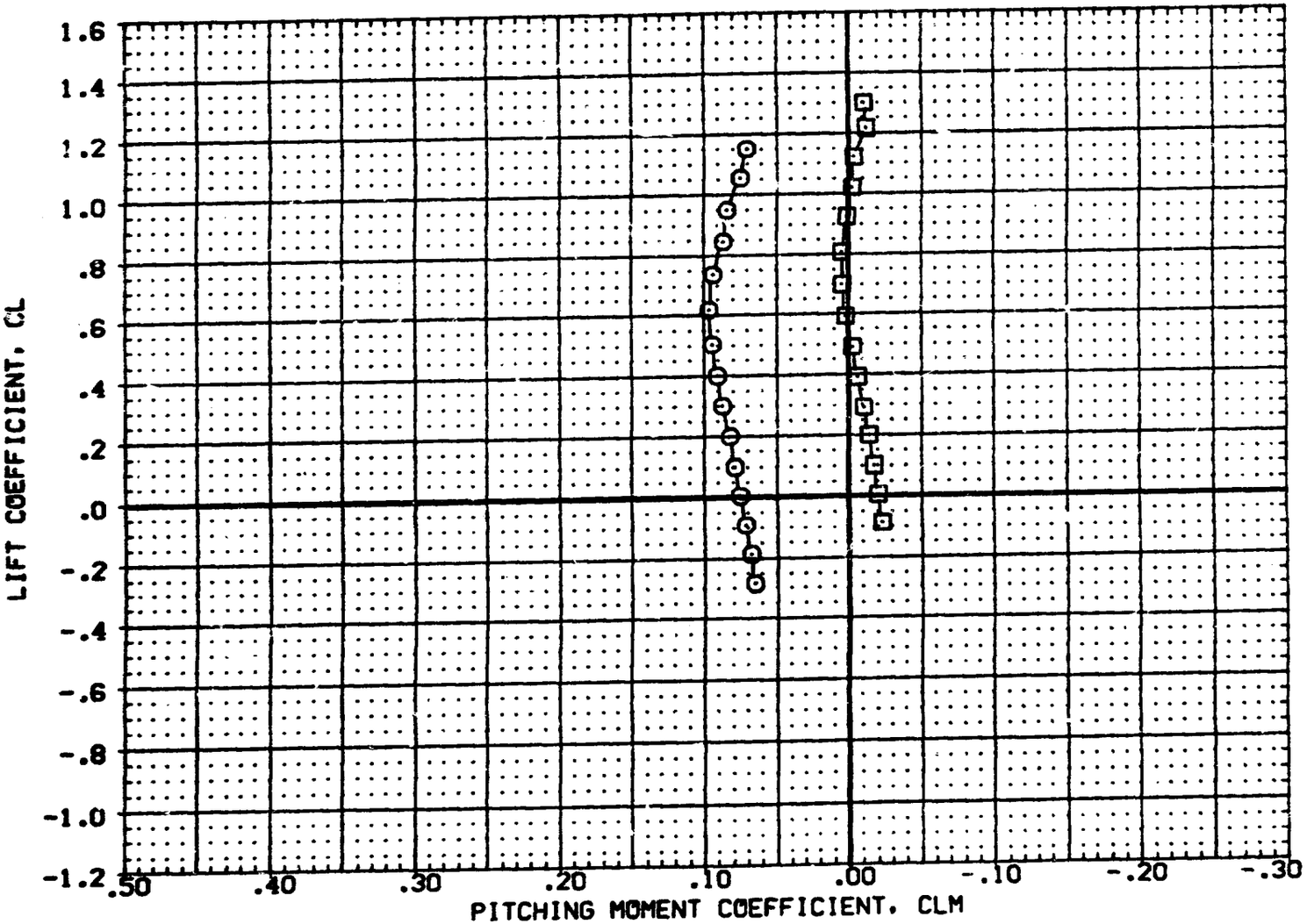


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP112)	○	0A21	B17C7H3M4F5	V107E23V7R5X9
(XDP133)	□	0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

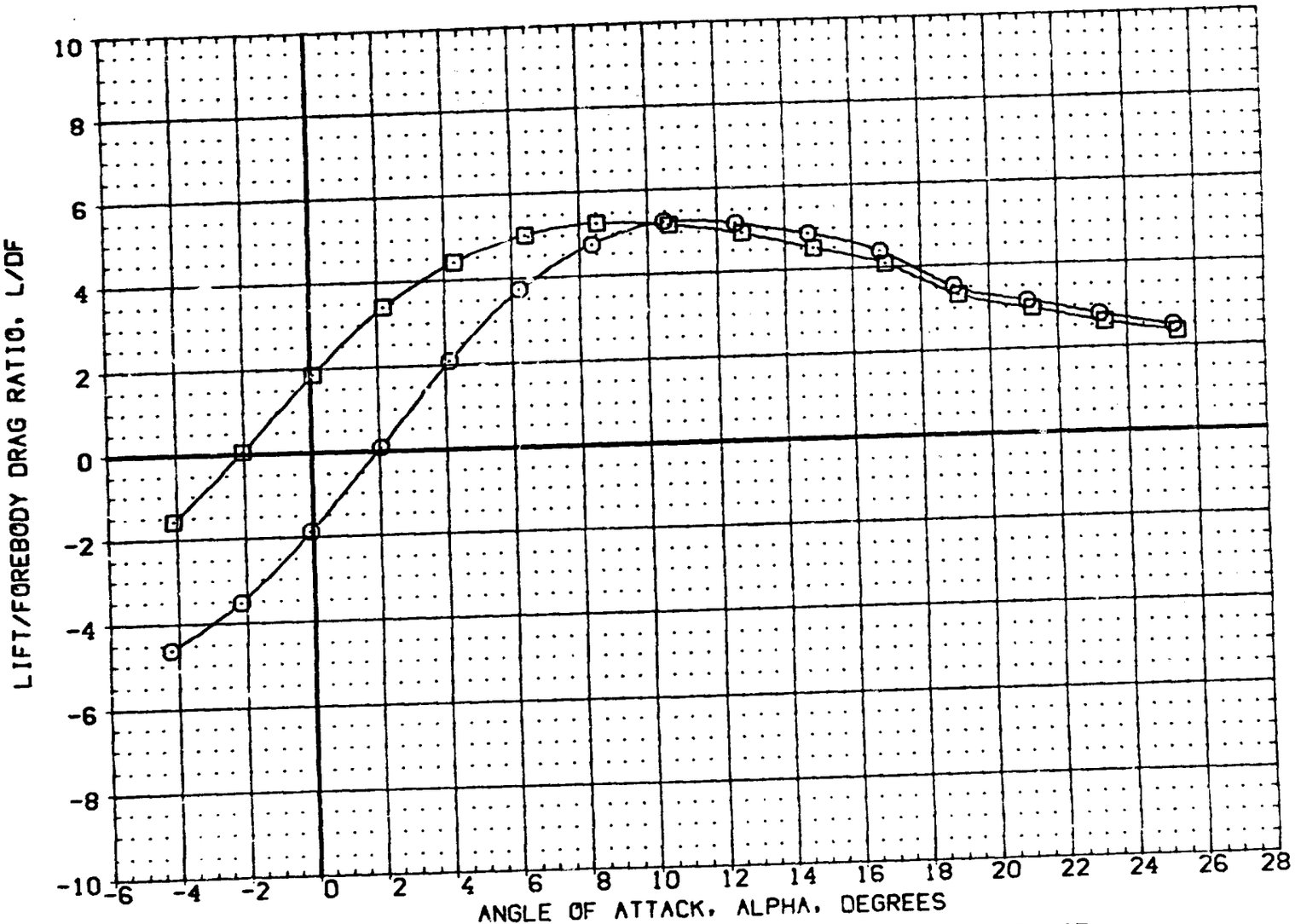


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(XOP112)		0A21	B17C7H3M4F5	V107E23V7R6X9
(XOP133)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

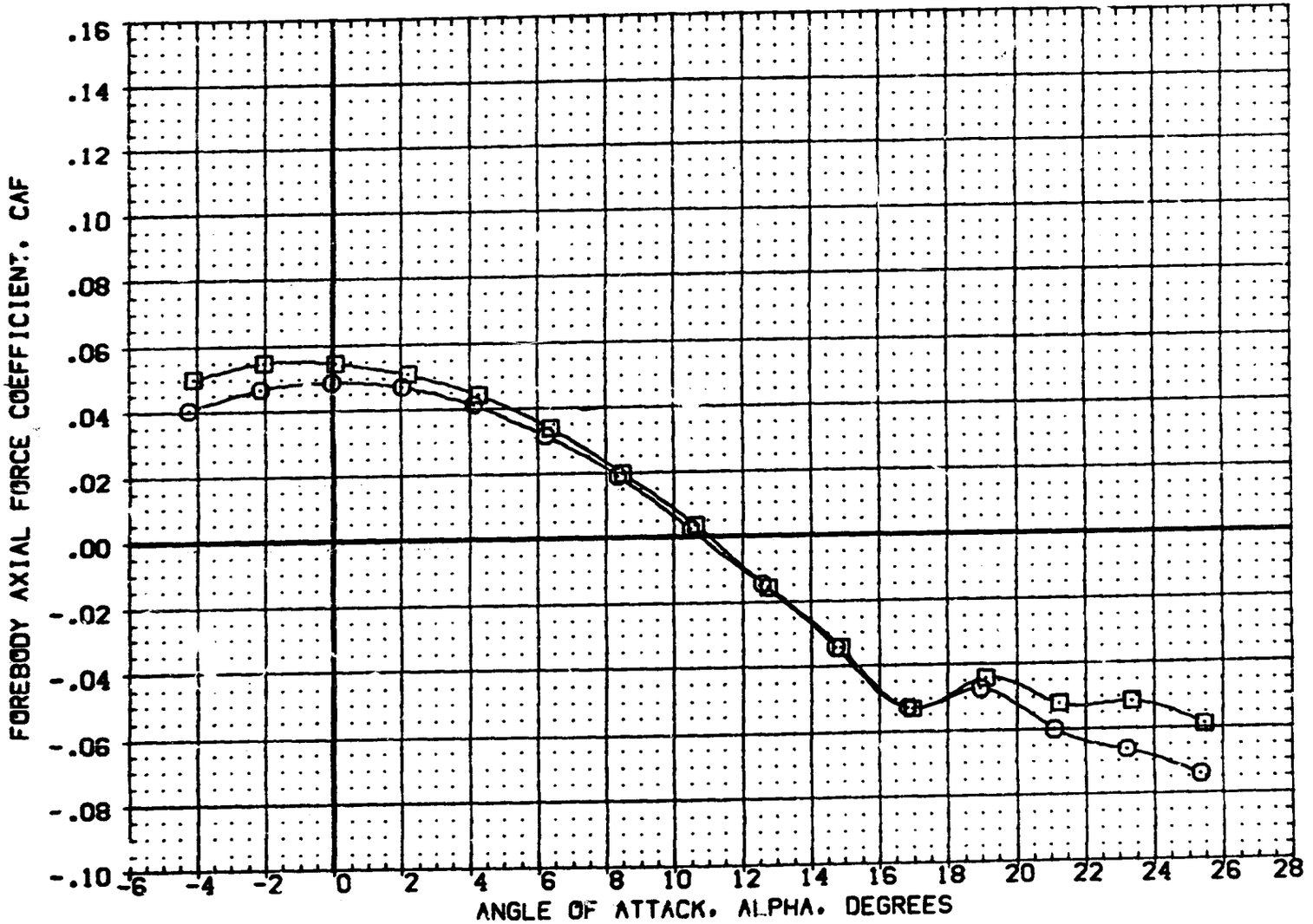


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP1;2)	○	0A21	B17C7H3M4F5	W107E23V7R6X9
(XDP133)	□	0A21	B17C7H3M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

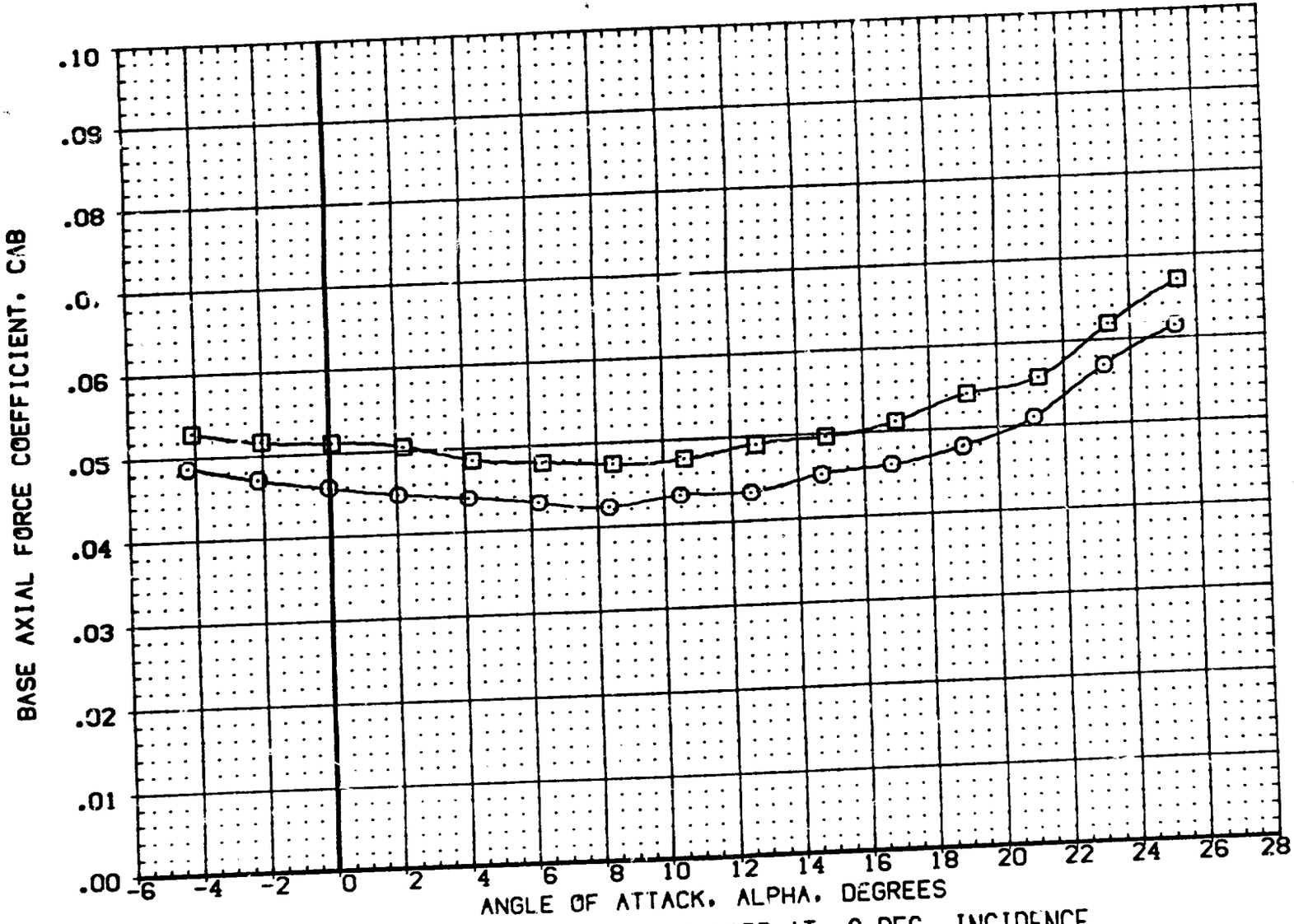


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(XDP112)	⊡	0A21	B17C7H3M4FS	V107E23V7R6X9	.000	.000	-18.000	55.000
(XDP133)	⊟	0A21	B17C7H3M4FS	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.3874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

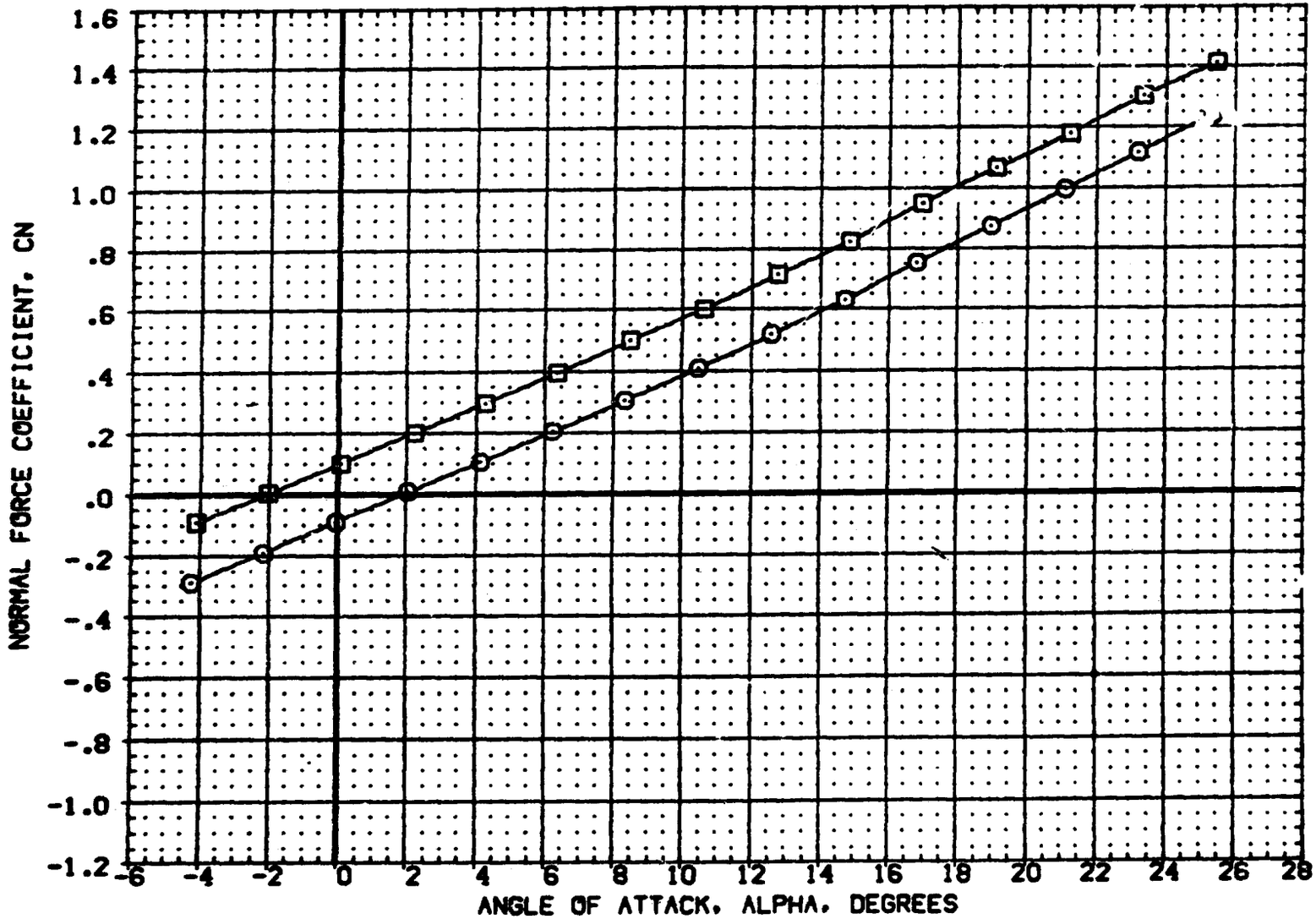


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

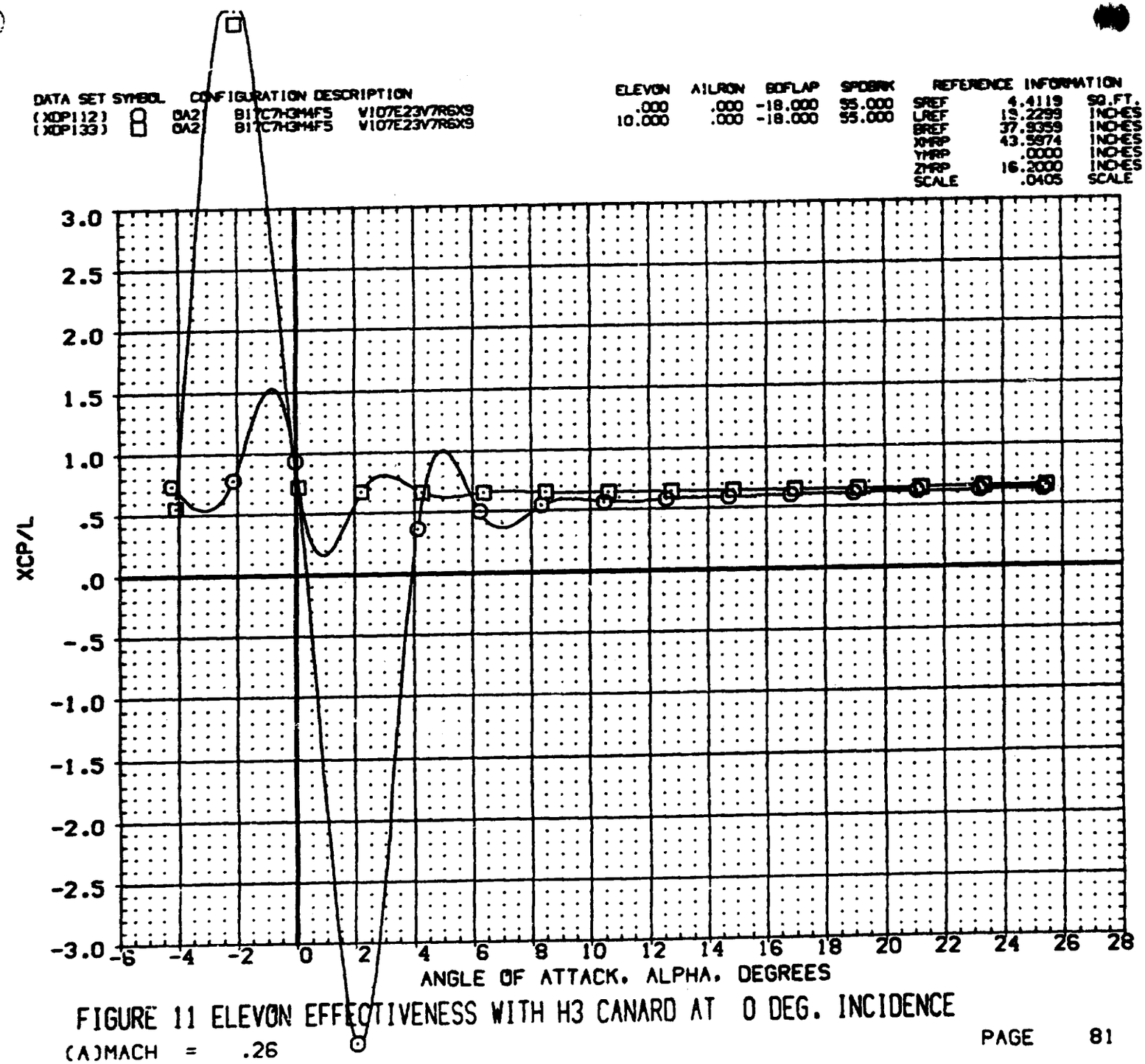


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP112)		0A21	B17C7H3M4F5	V107E23V7R6X9
(XDP133)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-10.000	55.000
10.000	.000	-10.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.3974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

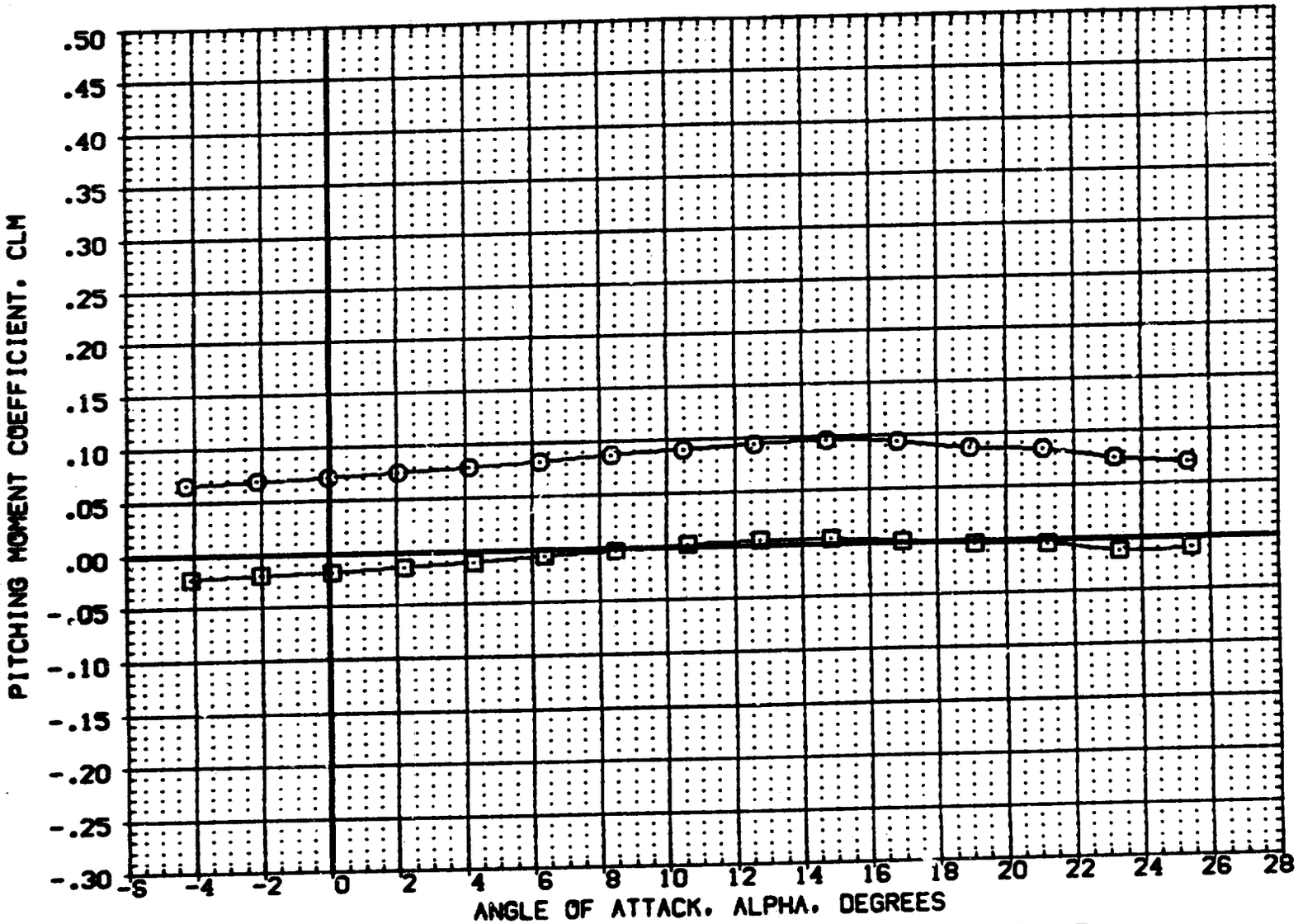


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(YDP133) ○ 0A21 B17C7H3M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

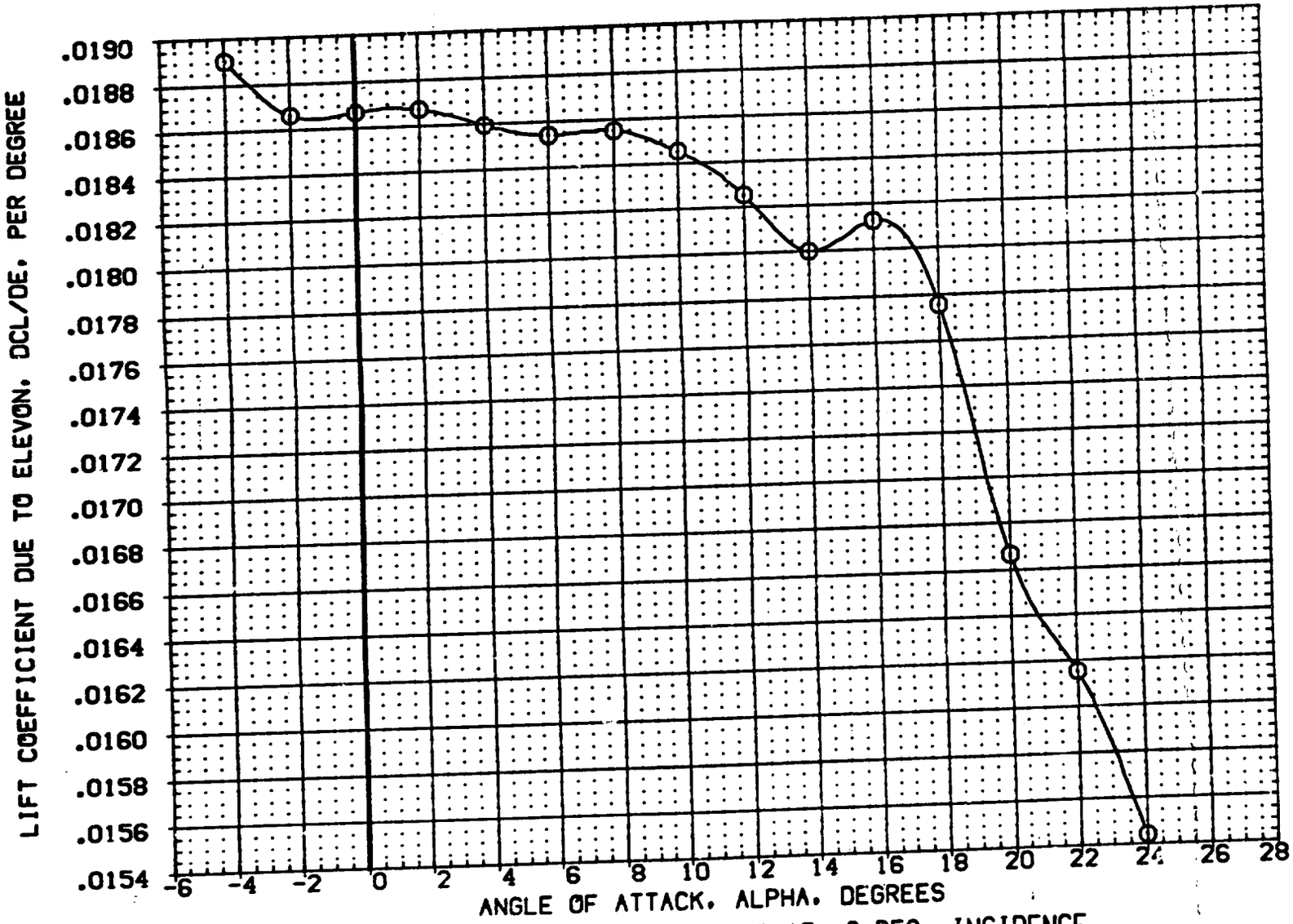


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(YDP133) ○ 0A21 B17C7A3H4F5 V107E23V7R8X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

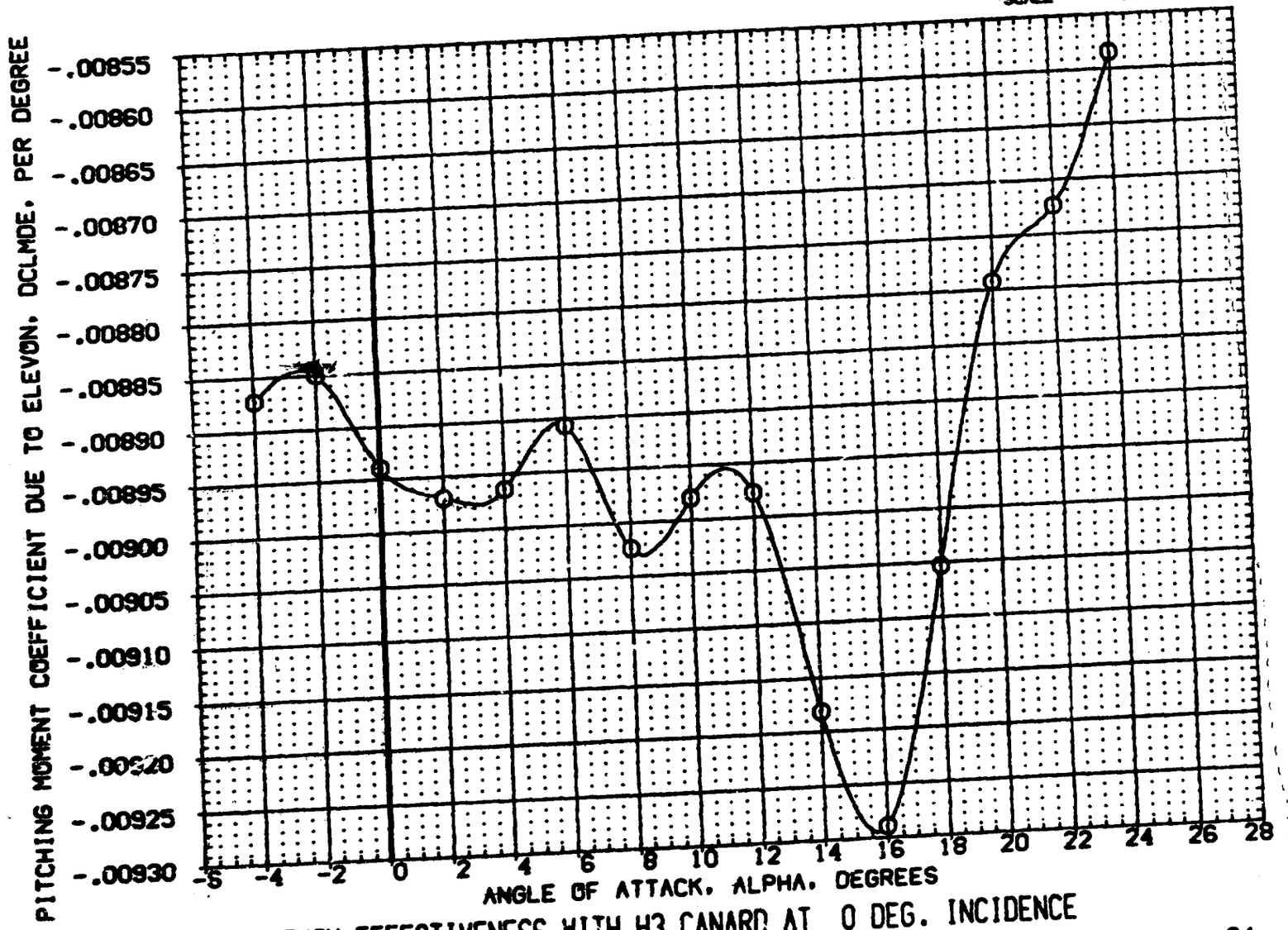


FIGURE 11 ELEVON EFFECTIVENESS WITH H3 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP113)	8	0A21	B17C7H3M4F5	W107E23V7R6X9
(XDP134)	8	0A21	B17C7H3M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

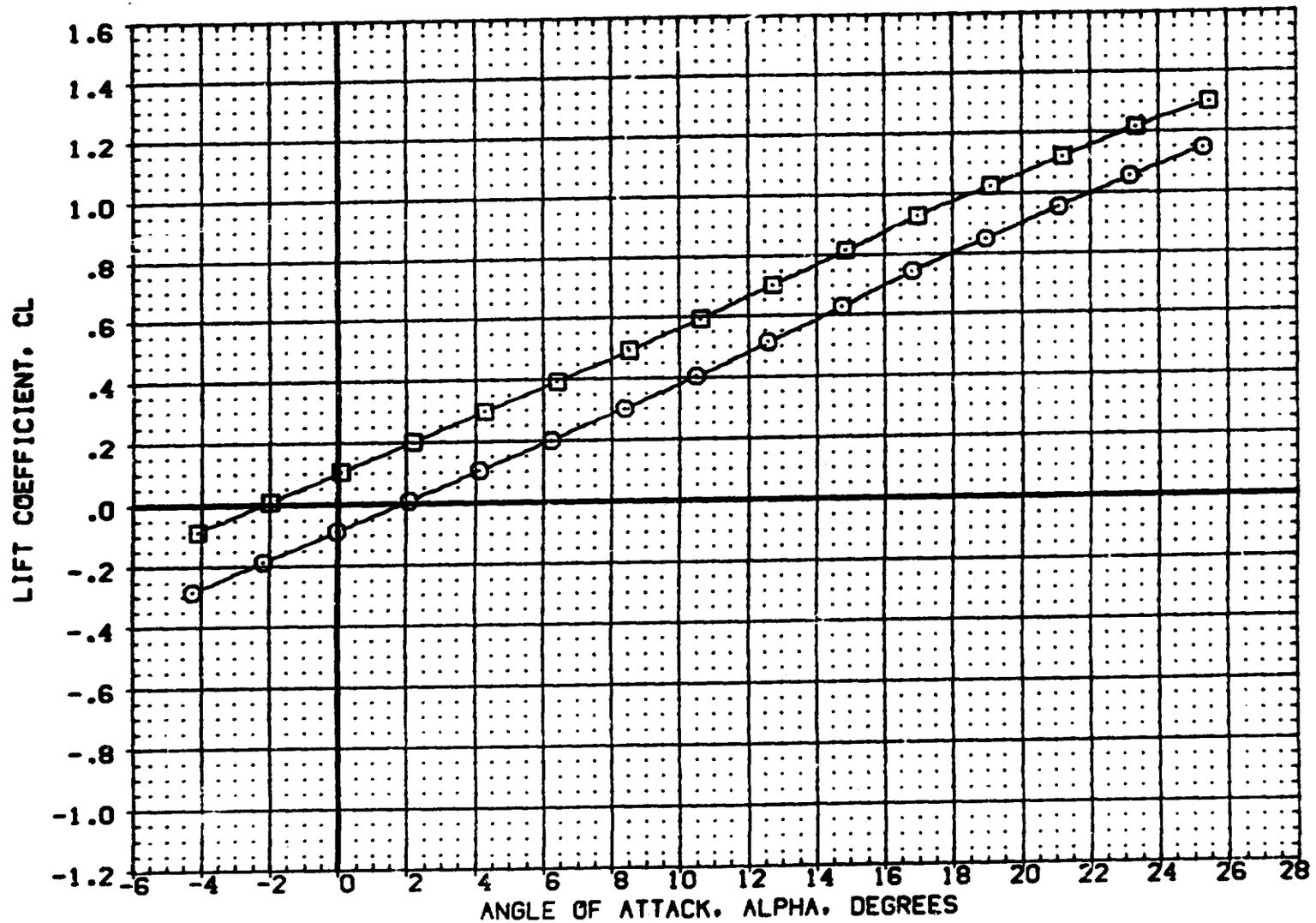


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP113)	□	0A21	B17C7HGM4F5	V107E23V7R6X9
(XDP134)	⊟	0A21	B17C7HGM4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.9974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

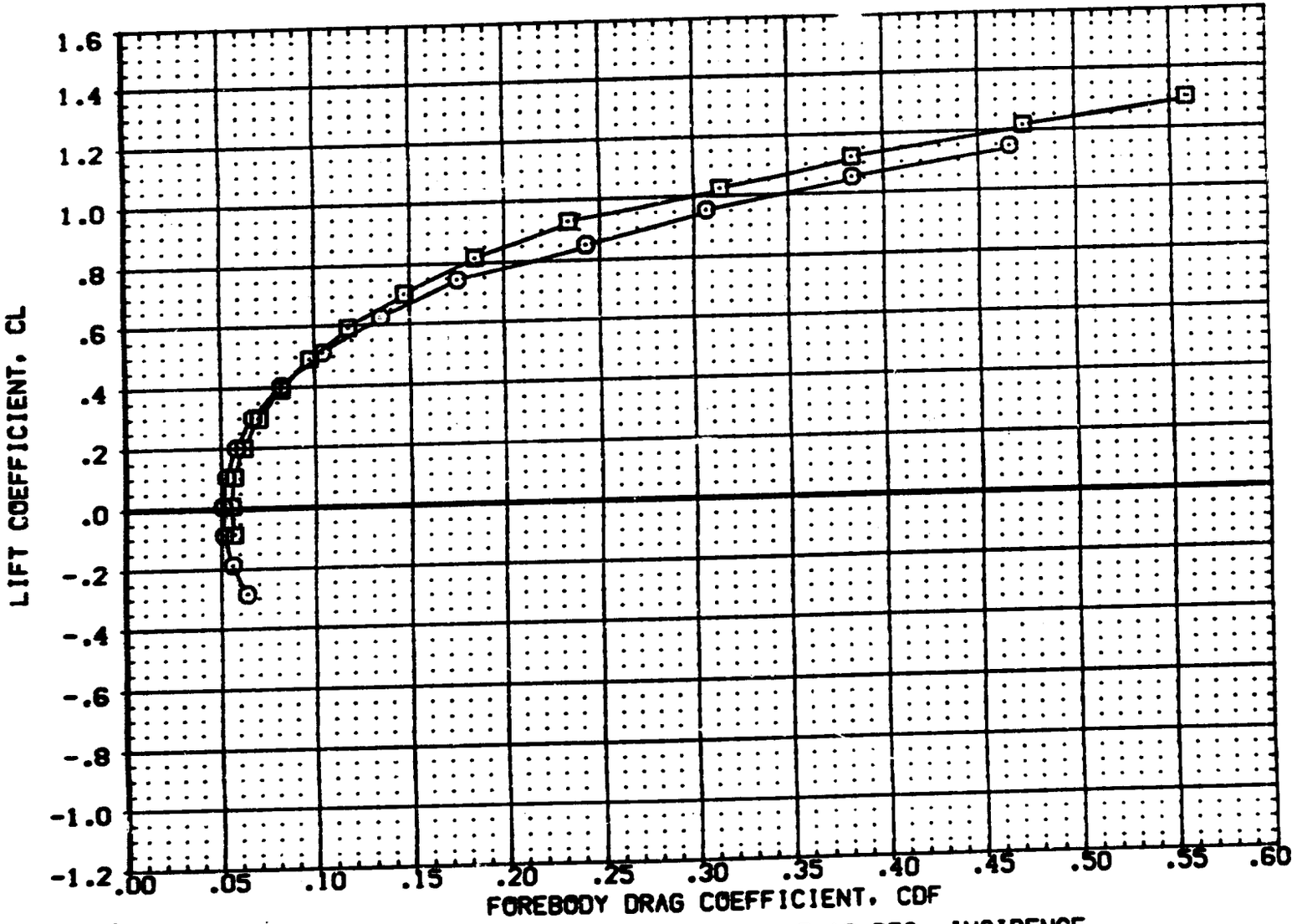


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP113)	0A21	B17C7H3M4F5	W107E23V7R6X9	
(XDP134)	0A21	B17C7H3M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

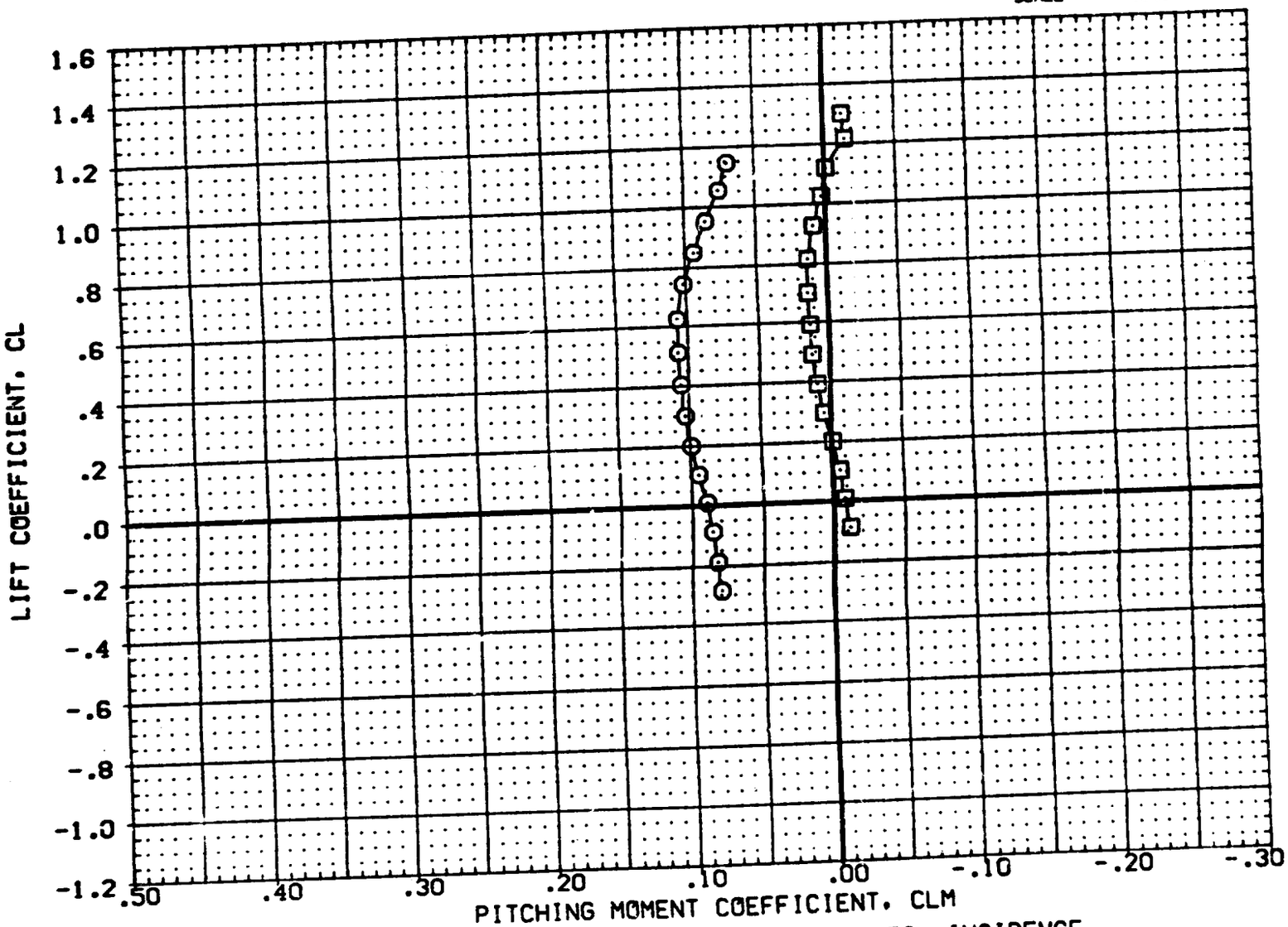


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(XDP113)	8	0A21	B17C7H3M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(XDP134)	8	0A21	B17C7H3M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

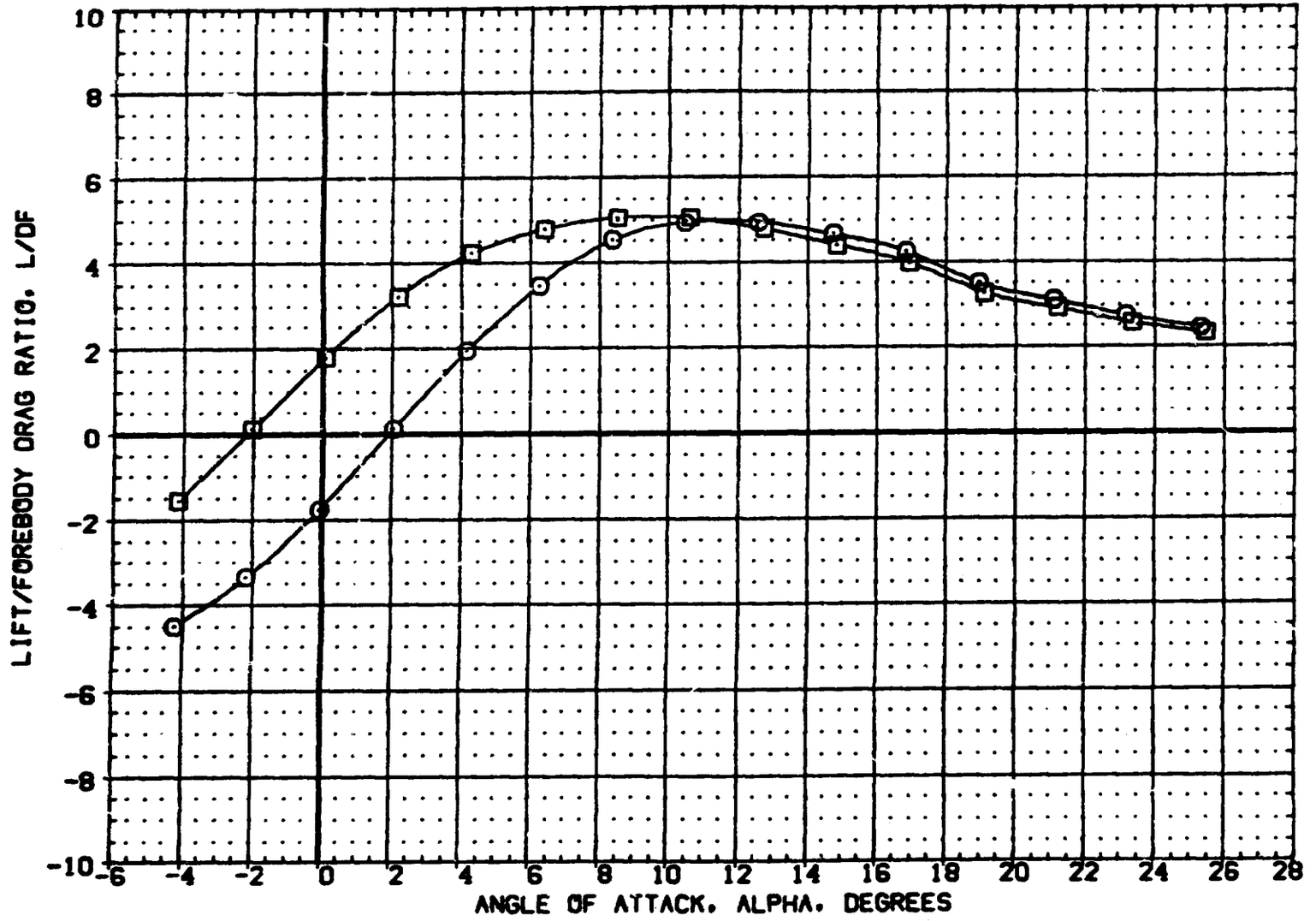


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP113)	0A21	B17C7H3M4F5	W107E23V7R5X9	
(XDP134)	0A21	B17C7H3M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

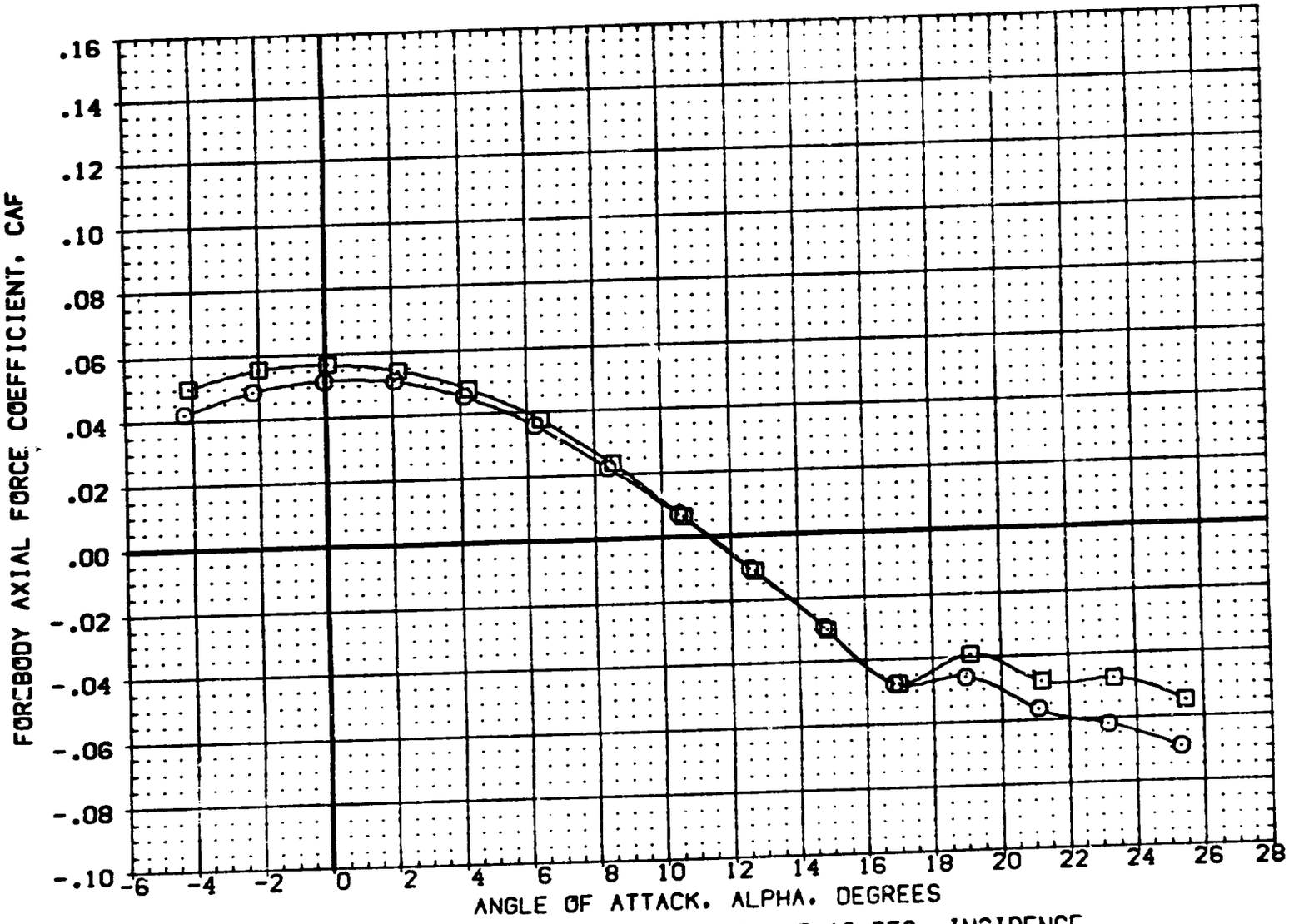


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP113)		0A21	B17C7H3M4F5	V107E23V7R6X9
(XDP134)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

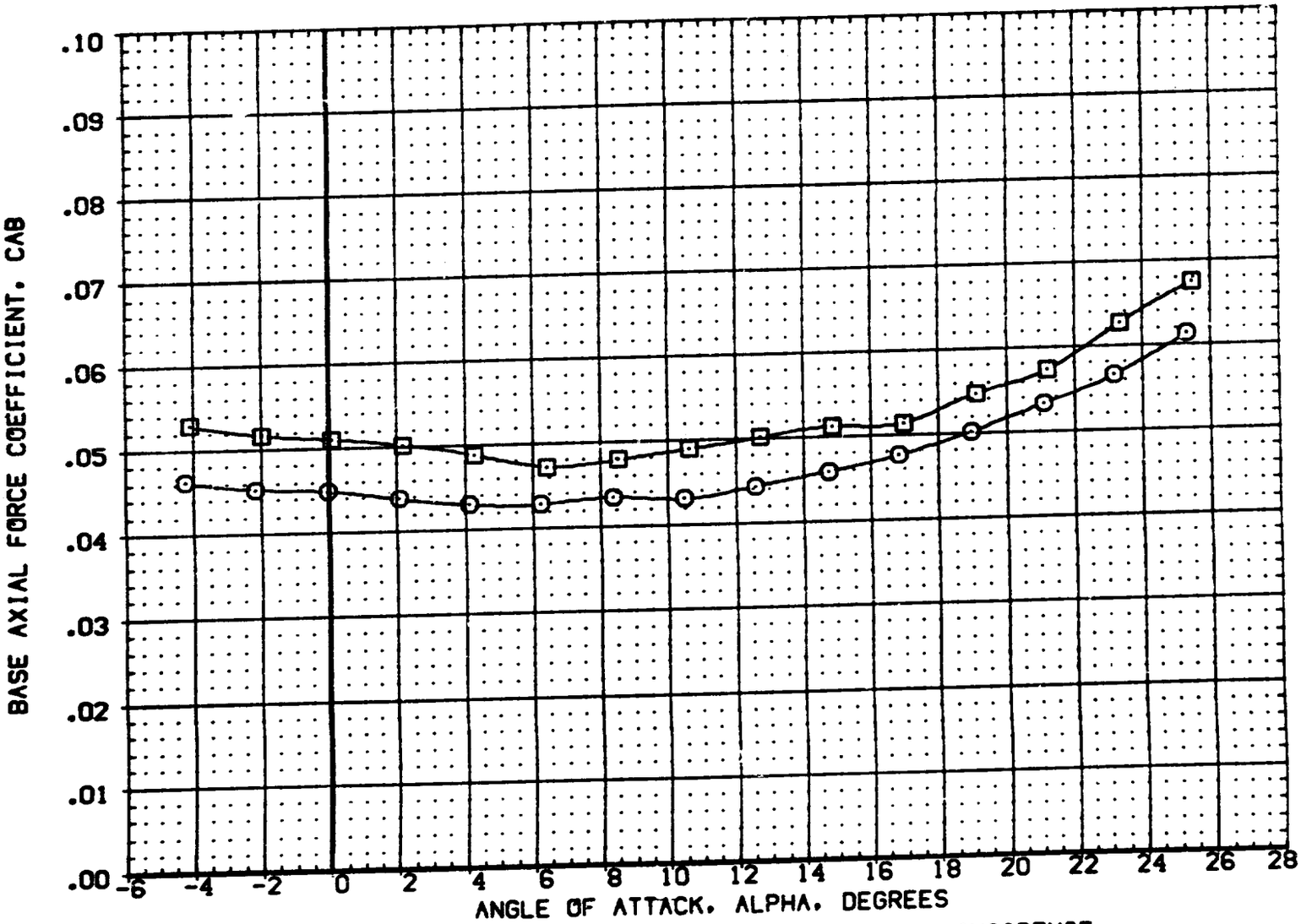


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP113)	⊟	0A21	B17C7H3M4F5	V107E23V7R6X9
(XDP134)	⊟	0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	9.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

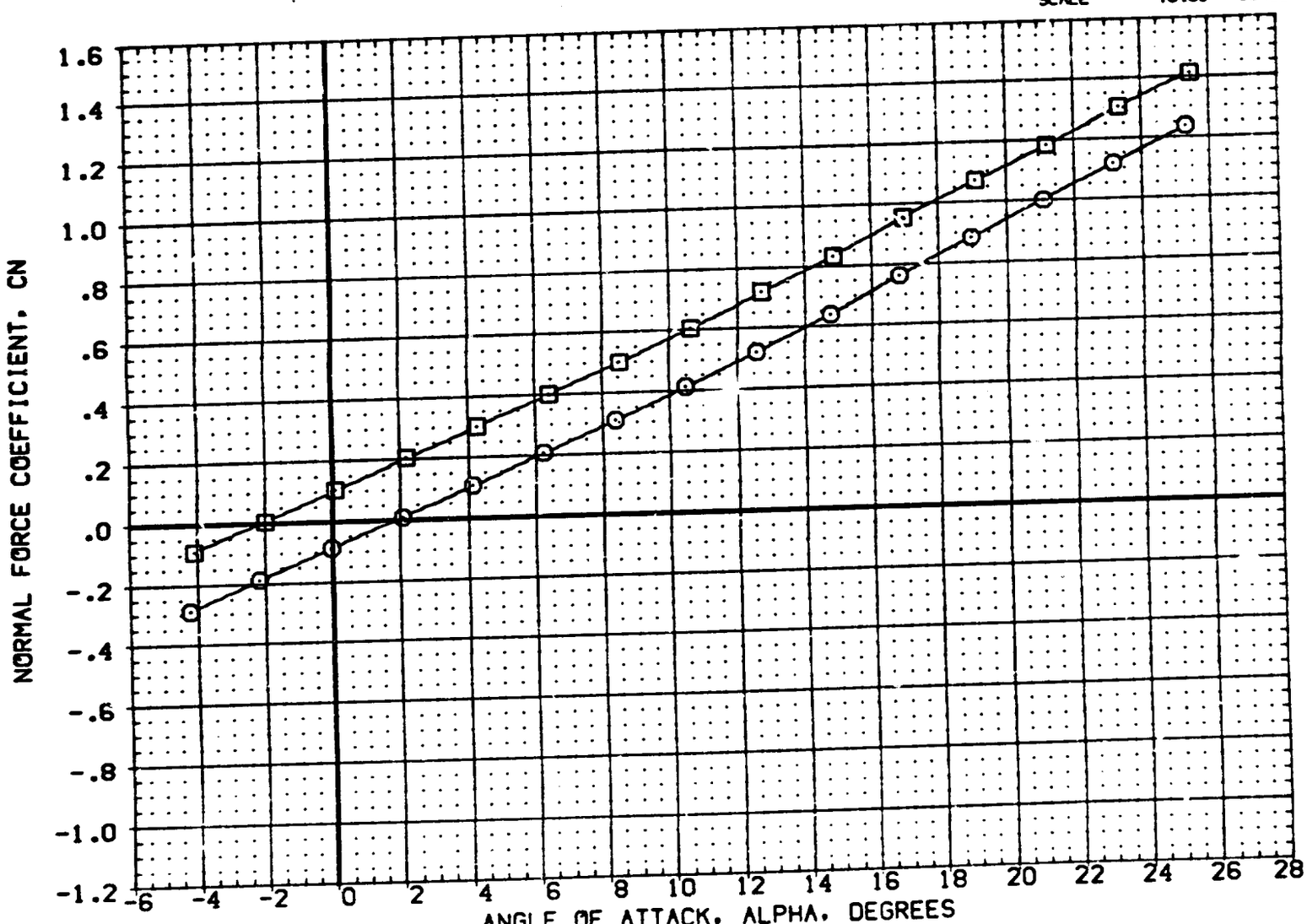


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(XDP113)		0A21	B17C7H3M4F5	V107E23V7R6X9	
(XDP134)		0A21	B17C7H3M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

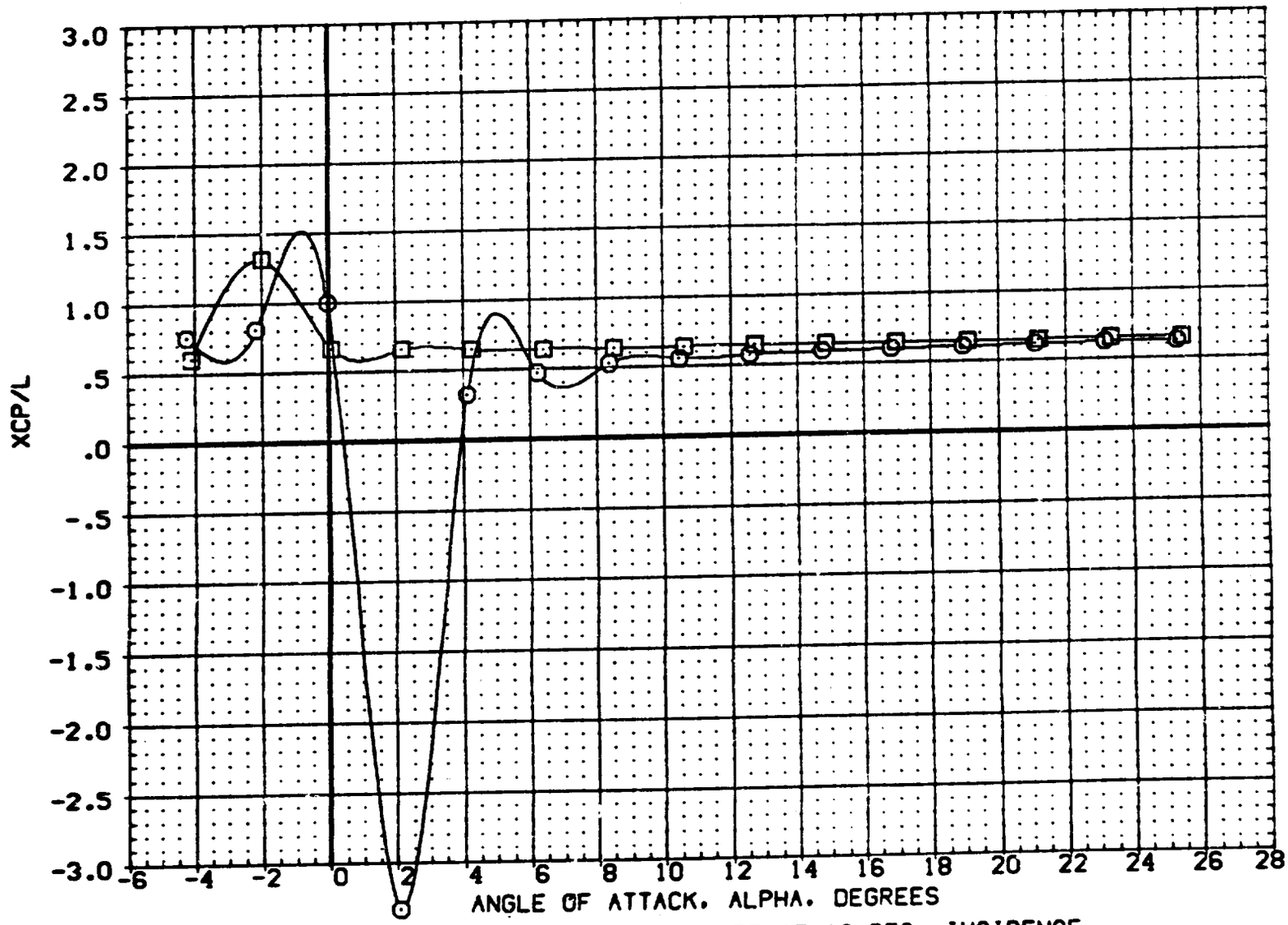


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

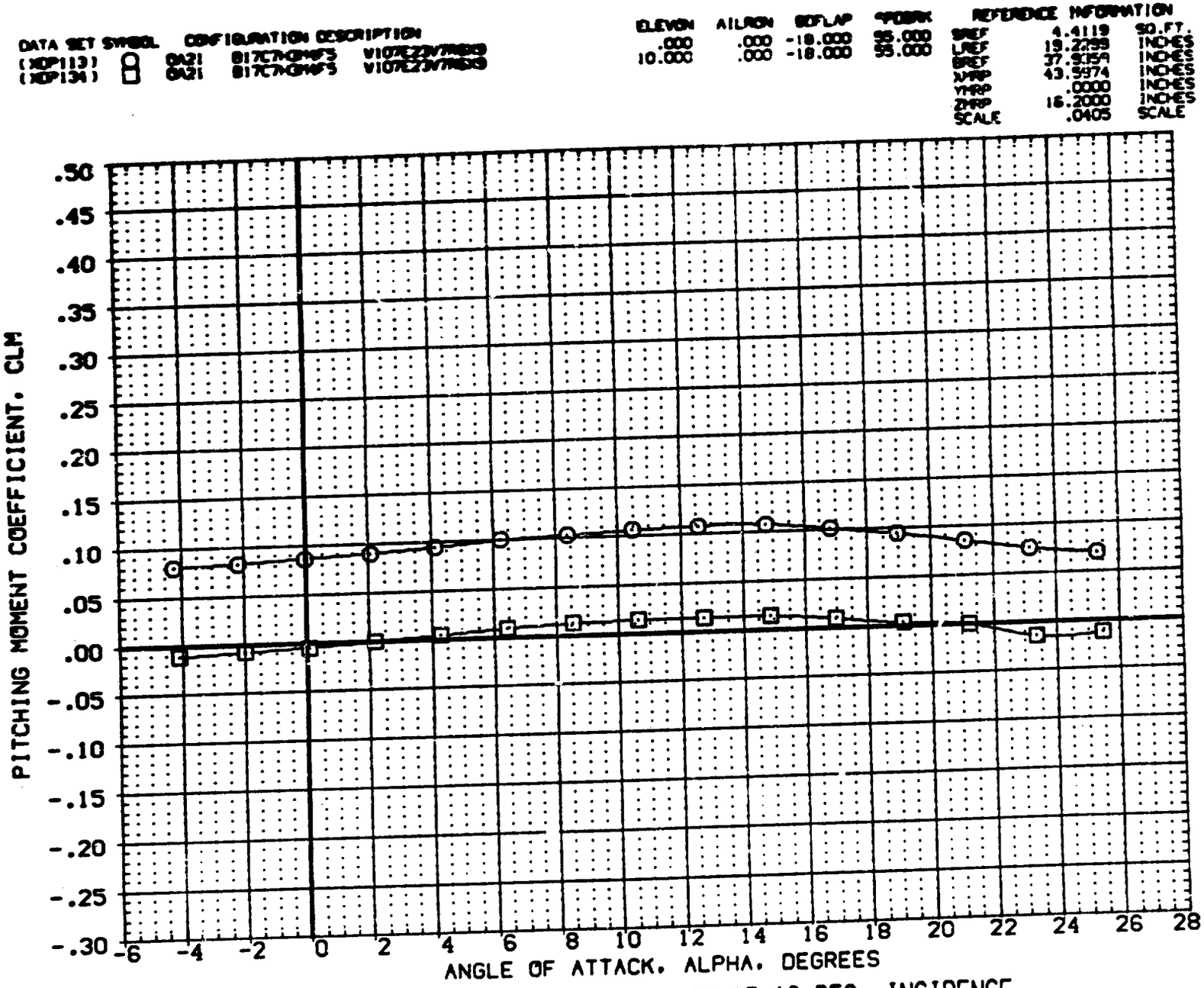


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(YOP134) O	8A21 B17C7H3M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

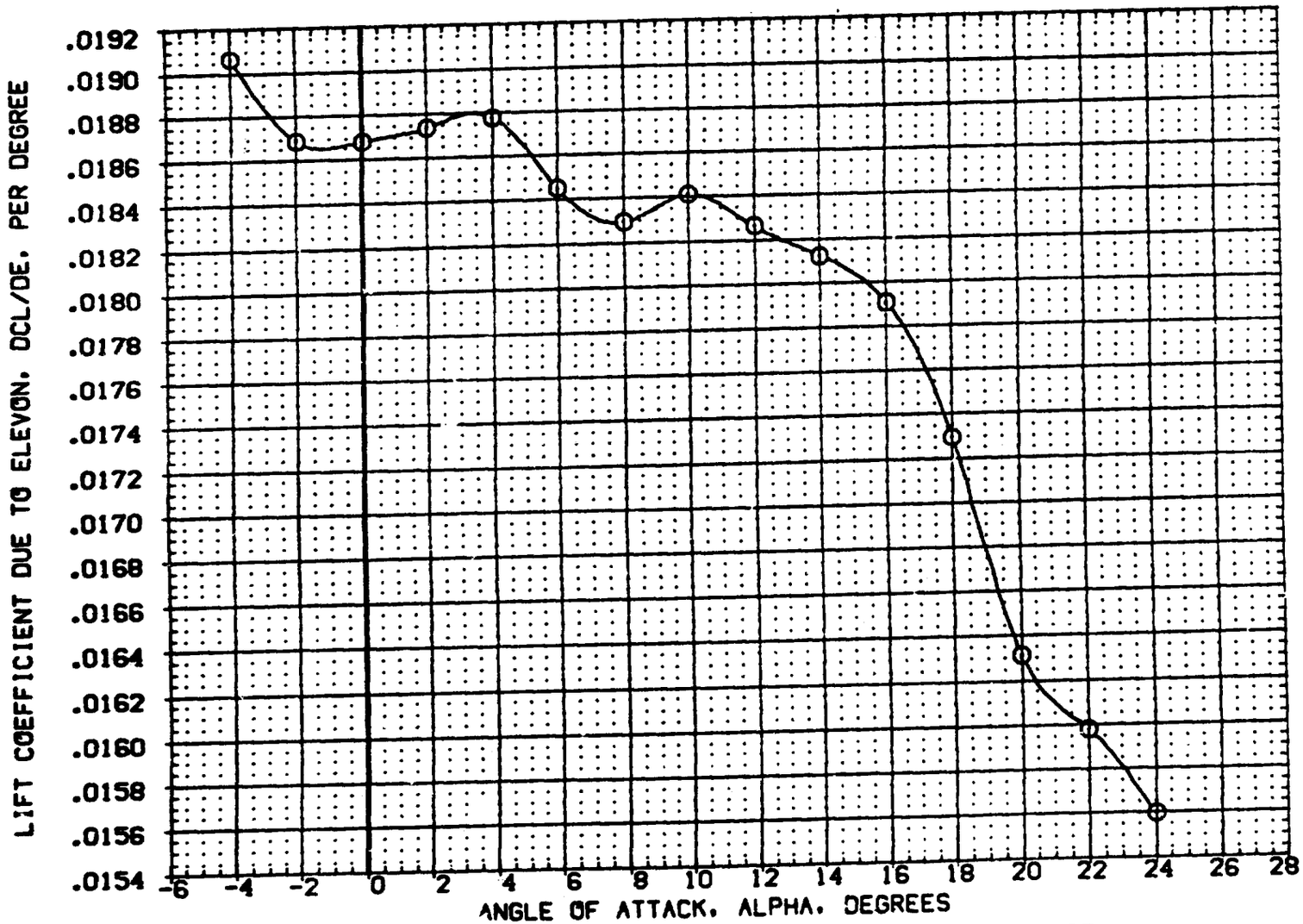


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(YOP134) ○ 0A21 B17C7H3H4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

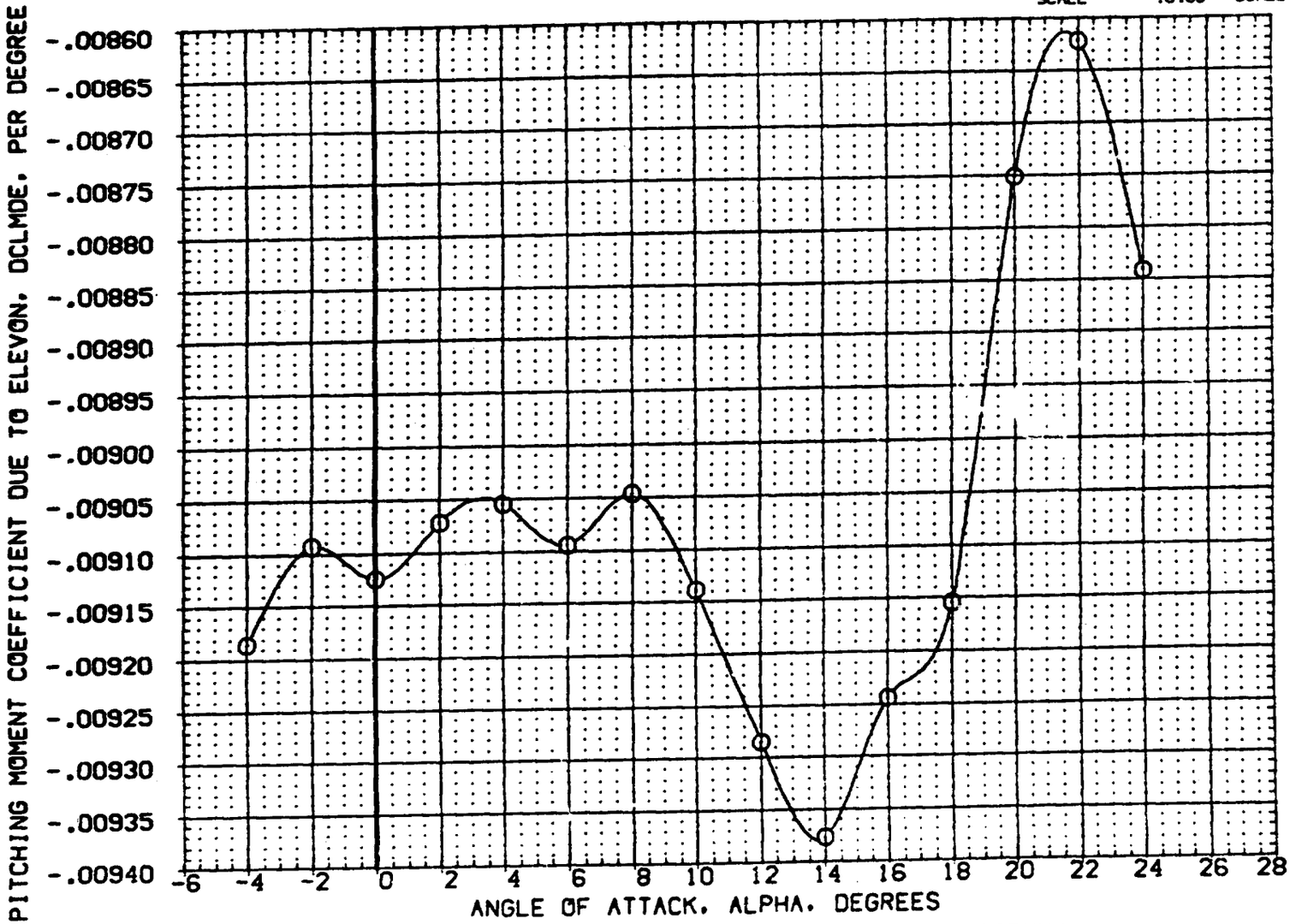


FIGURE 12 ELEVON EFFECTIVENESS WITH H3 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP114)	☐	0A21	B17C7H3M4F5	V107E23V7R6X9
(XDP135)	☐	0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

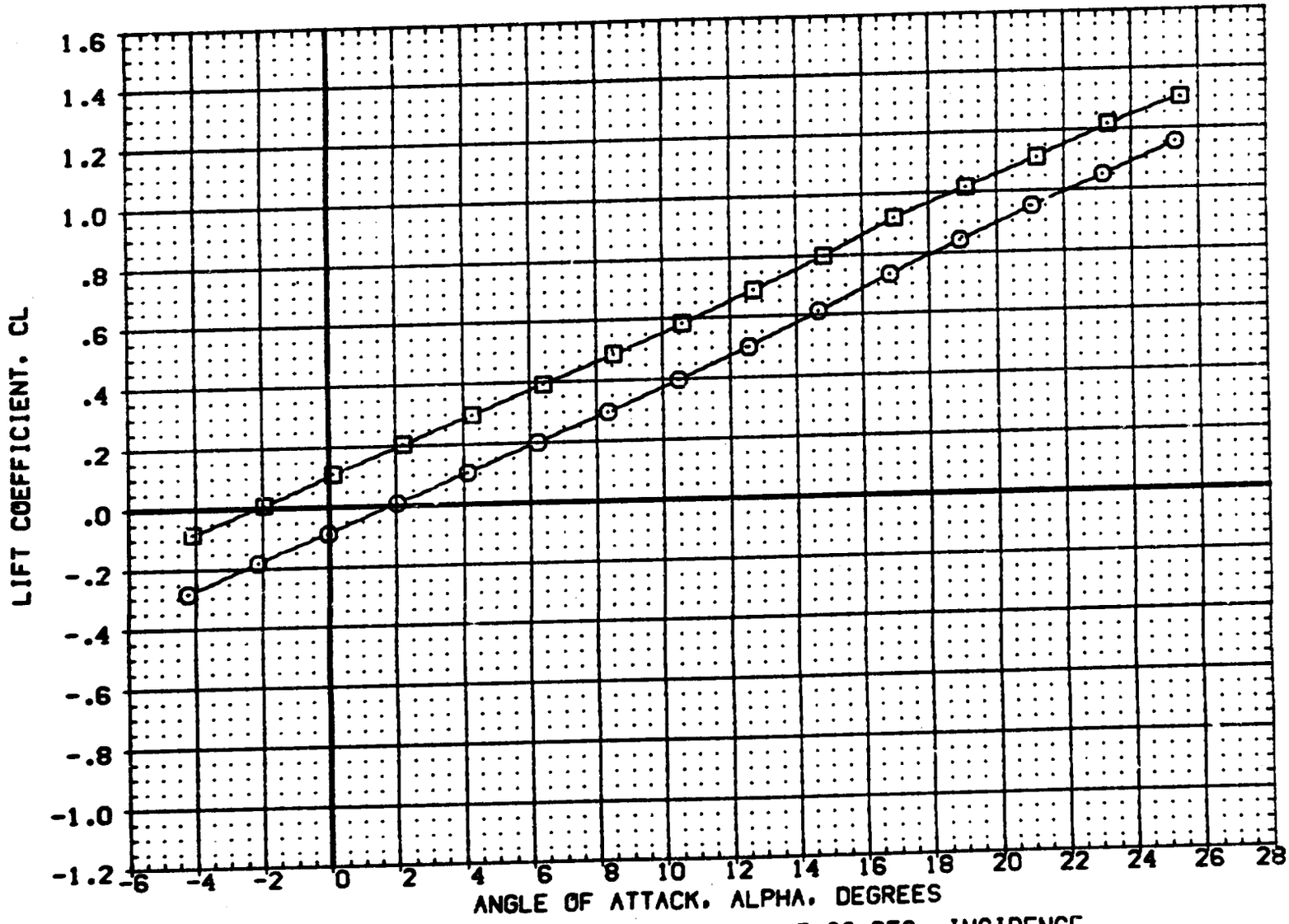


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XOP114)		0A21	B17C7H3M4F5	V107E23V7R6X9
(XOP135)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

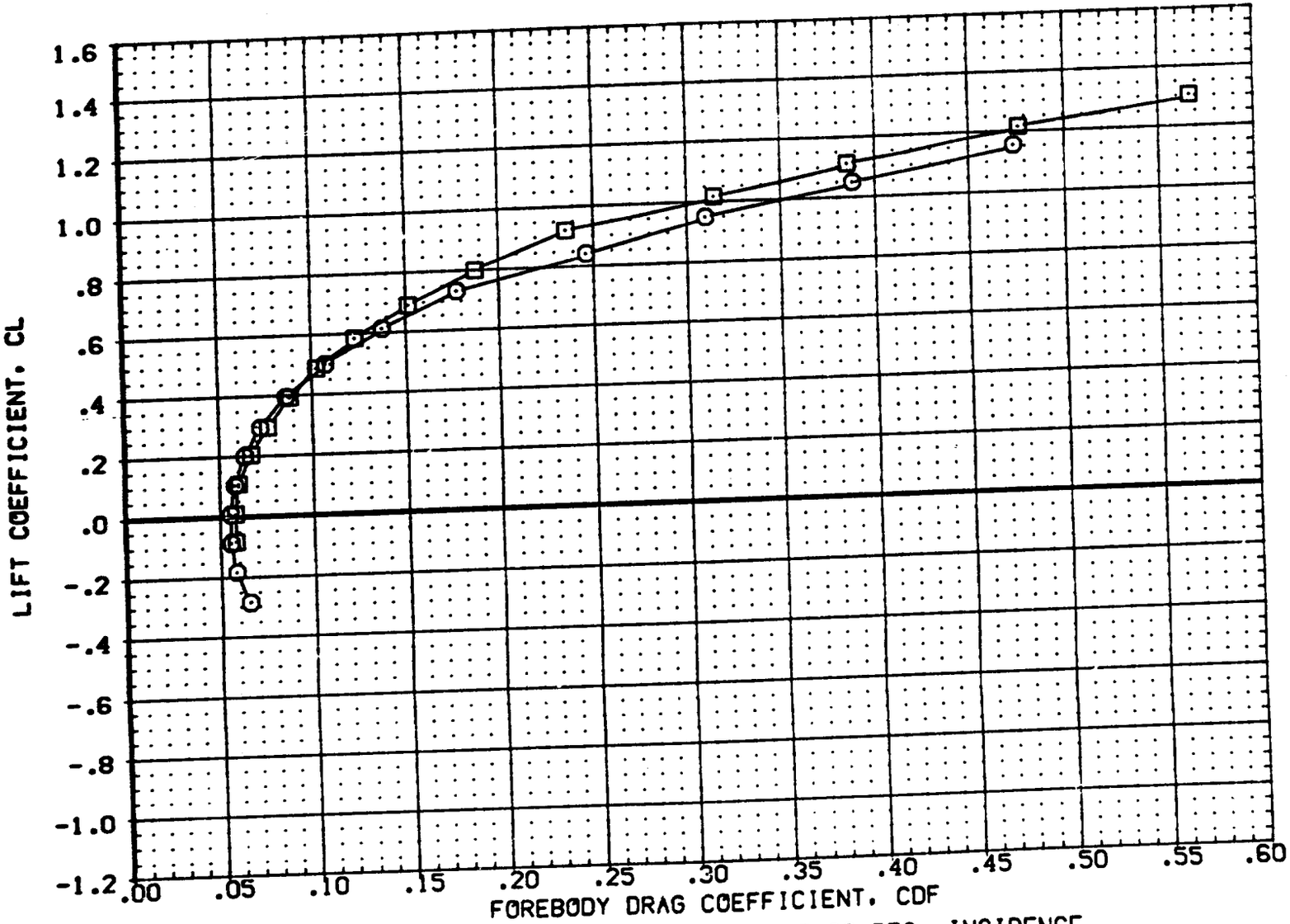


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP114)	8	8A21	B17C7H3M4F5	V107E23V7R6X9
(XDP135)	8	8A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

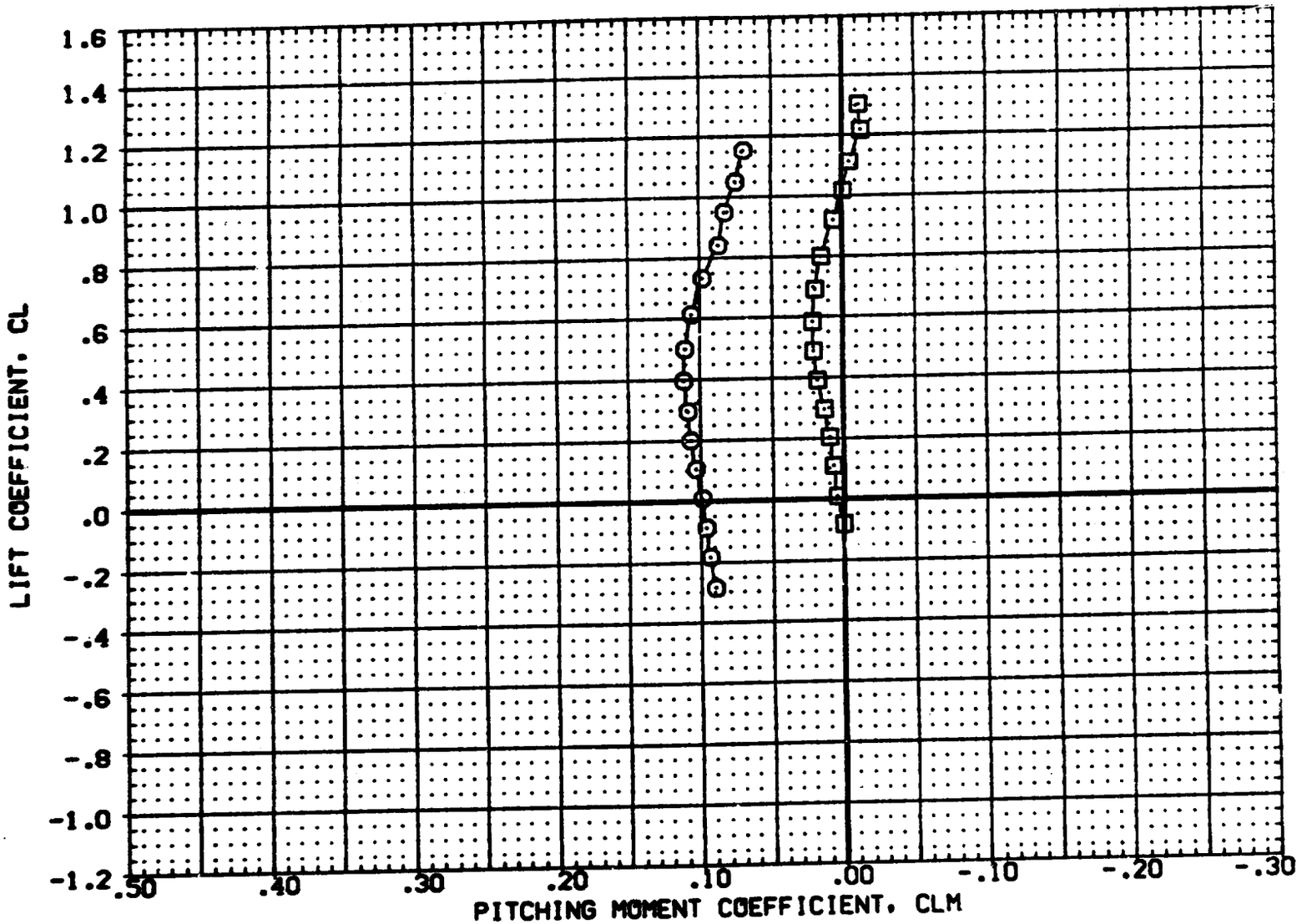


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XOP114)		0A21	B17C7H3M4F5	V107E23V7R6X9
(XOP135)		0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

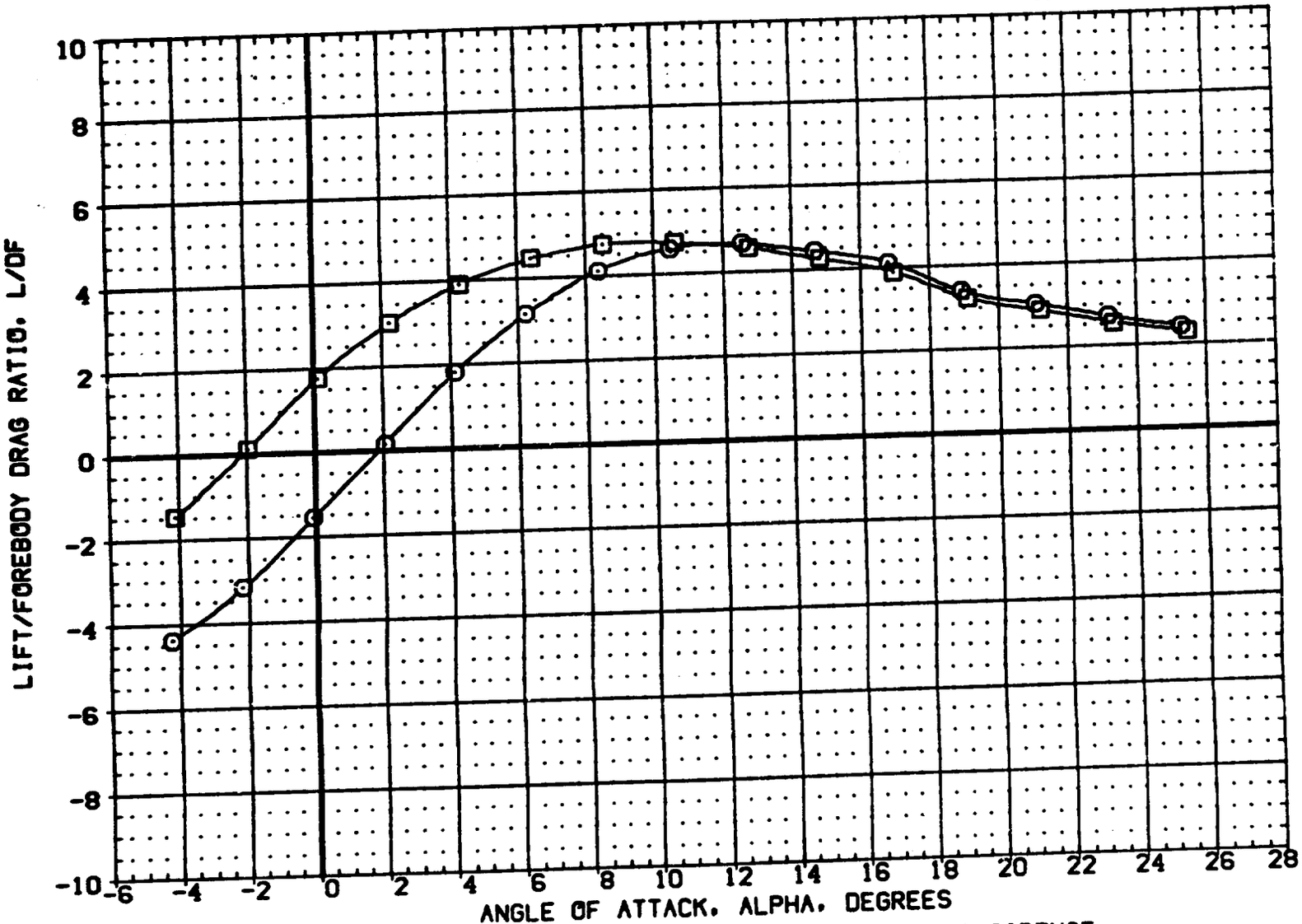


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

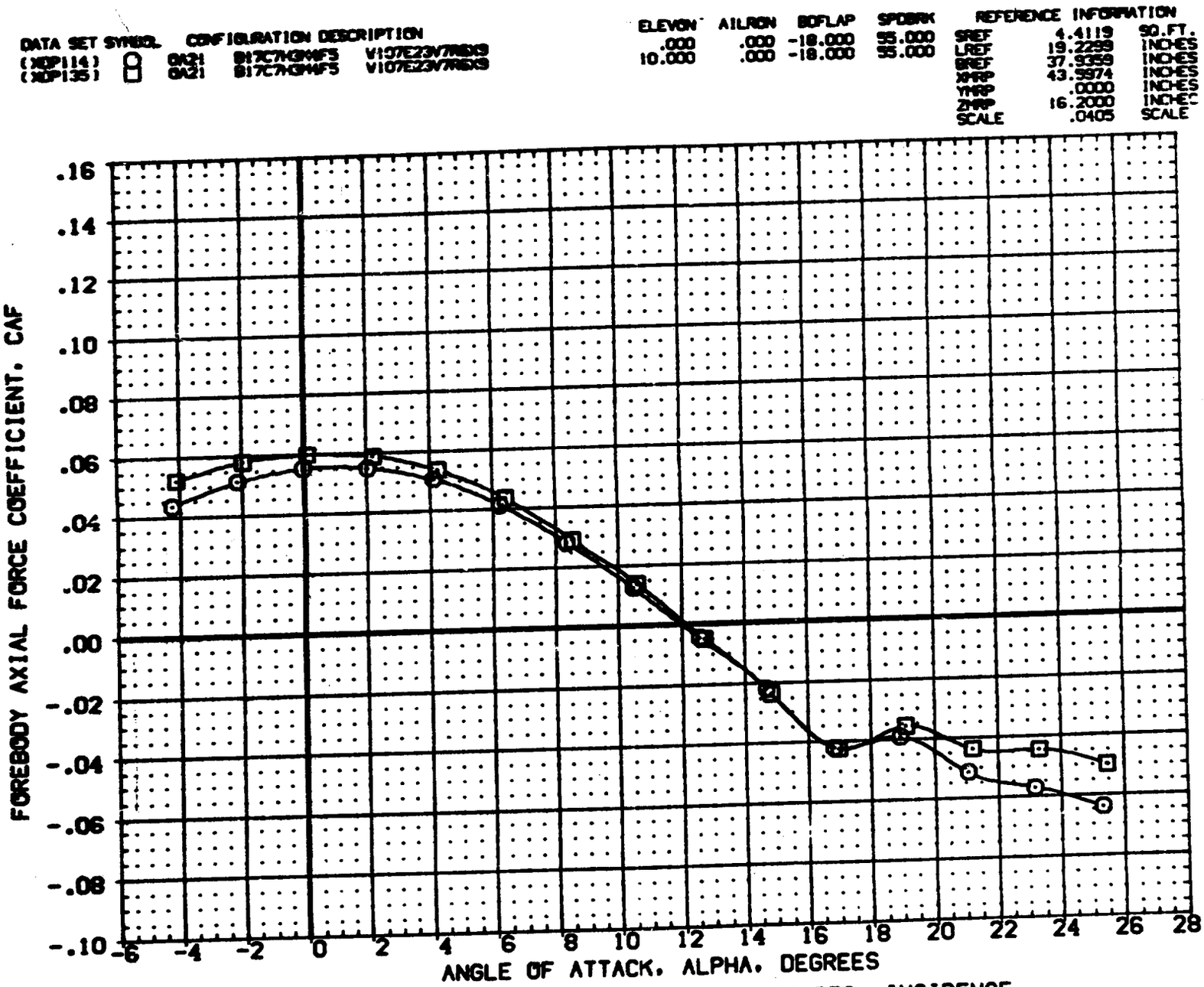


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(XDP114)	0A21	B17C7H3M4F5	V107E23V7R6X9	
(XDP135)	0A21	B17C7H3M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

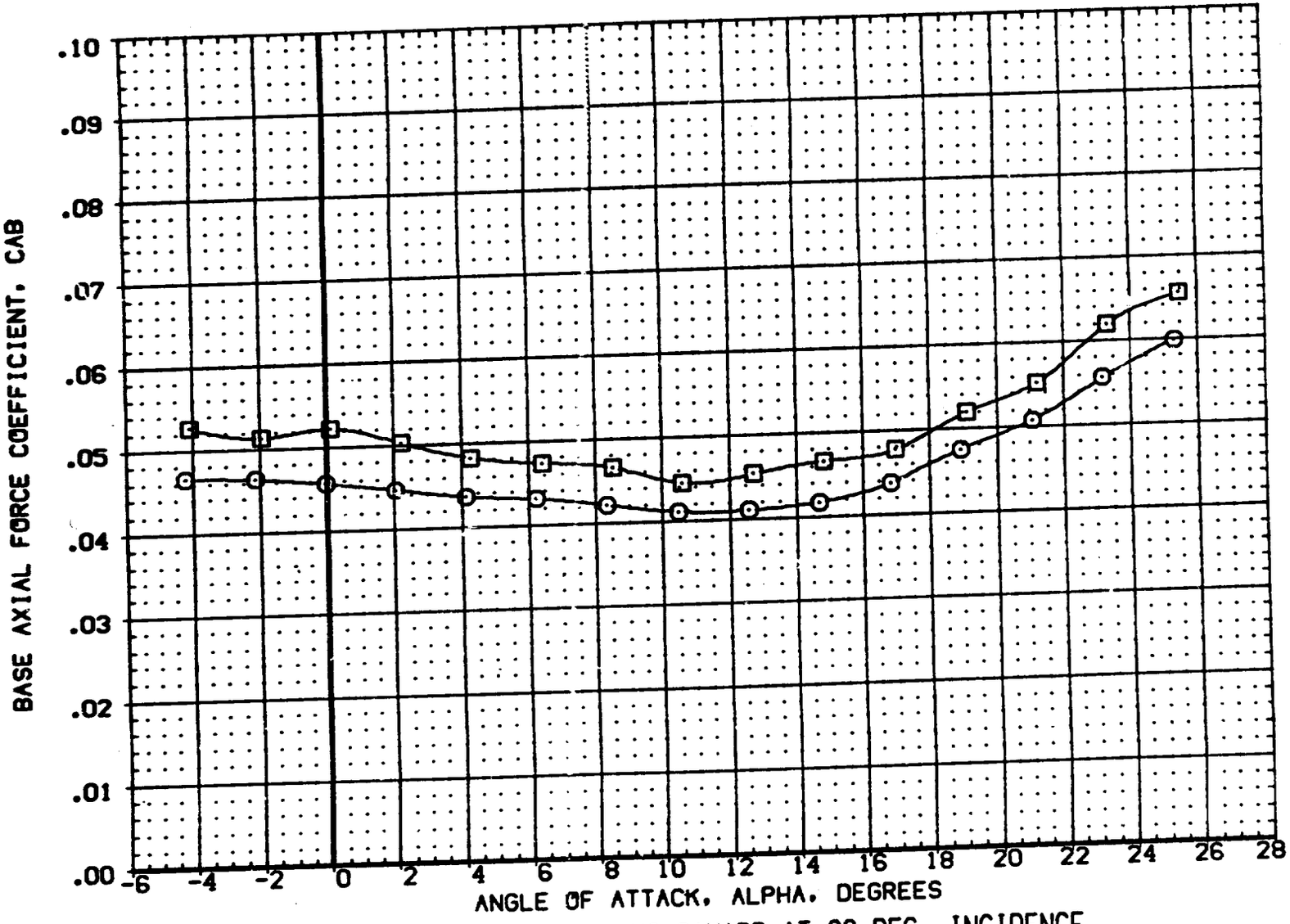


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(XDP114)	⊟	0A21	B17C7A3M4F5	V107E23V7R6X9		.000	.000	-18.000	55.000
(XDP135)	⊟	0A21	B17C7A3M4F5	V107E23V7R6X9		10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

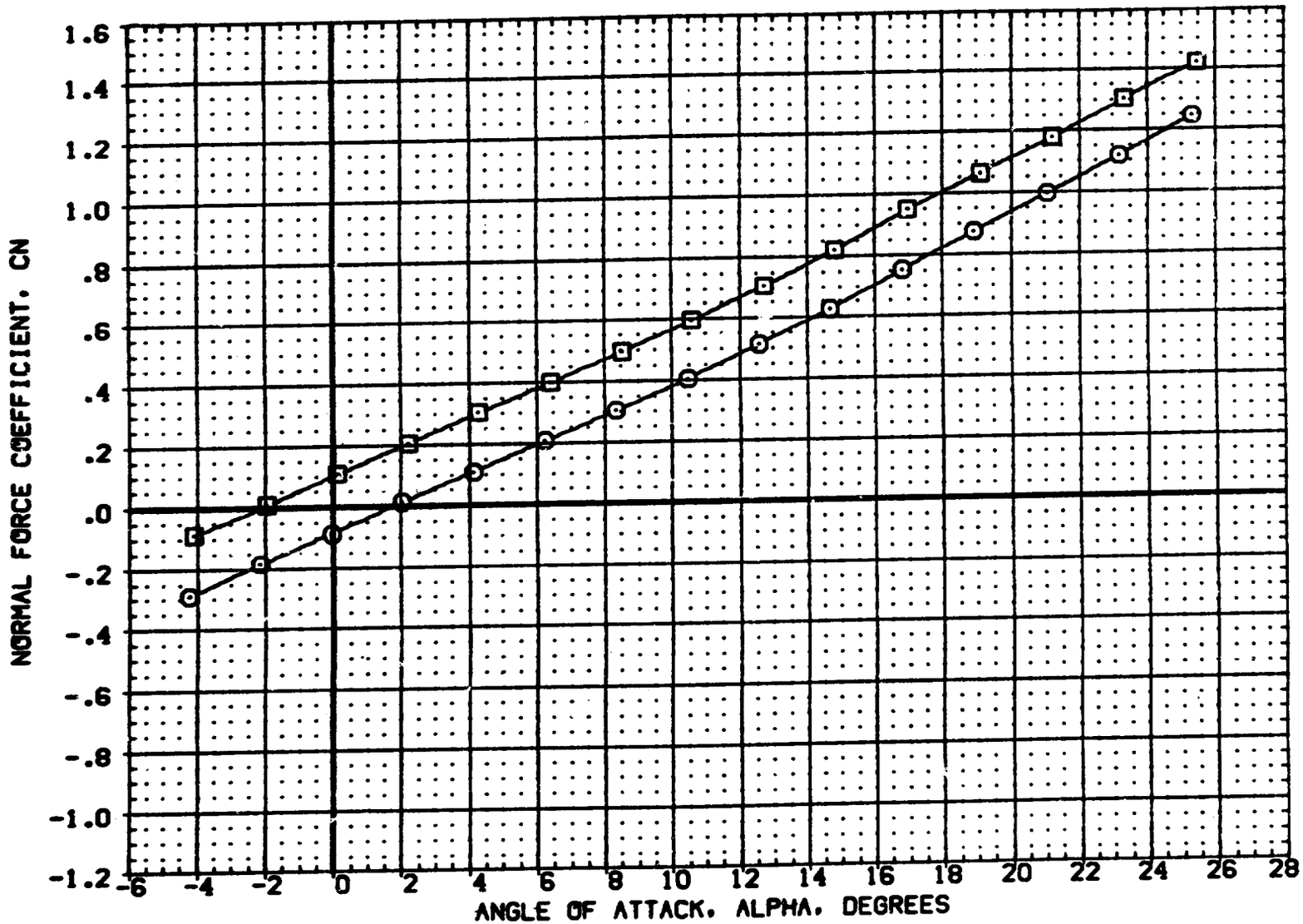


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XOP114)	⊡	0A21	B17C7H3M4F5	V107E23V7R6X9
(XOP135)	⊟	0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

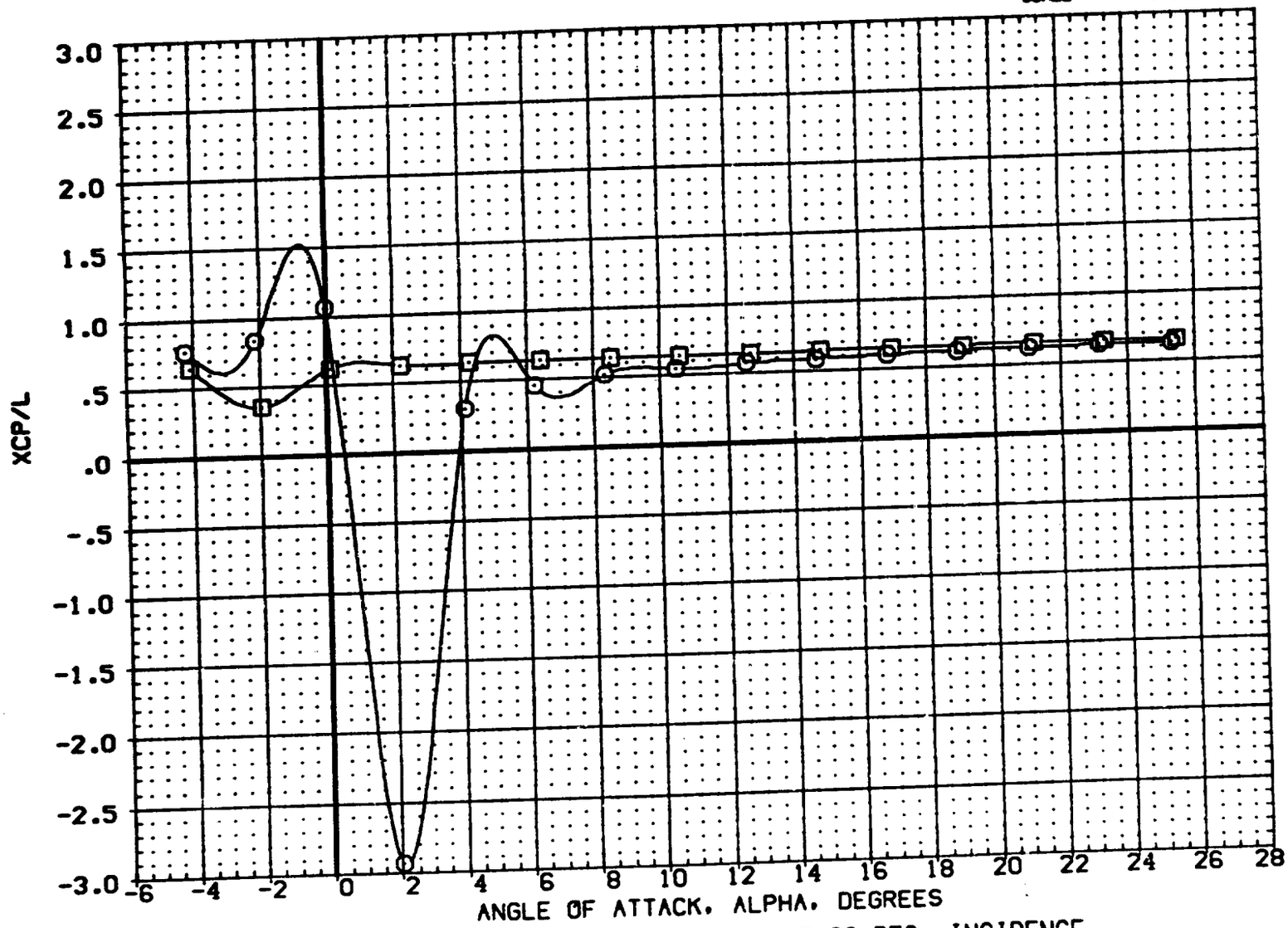


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(XDP114)	8	0A21	B17C7H3M4F5	V107E23V7R6X9
(XDP135)	8	0A21	B17C7H3M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

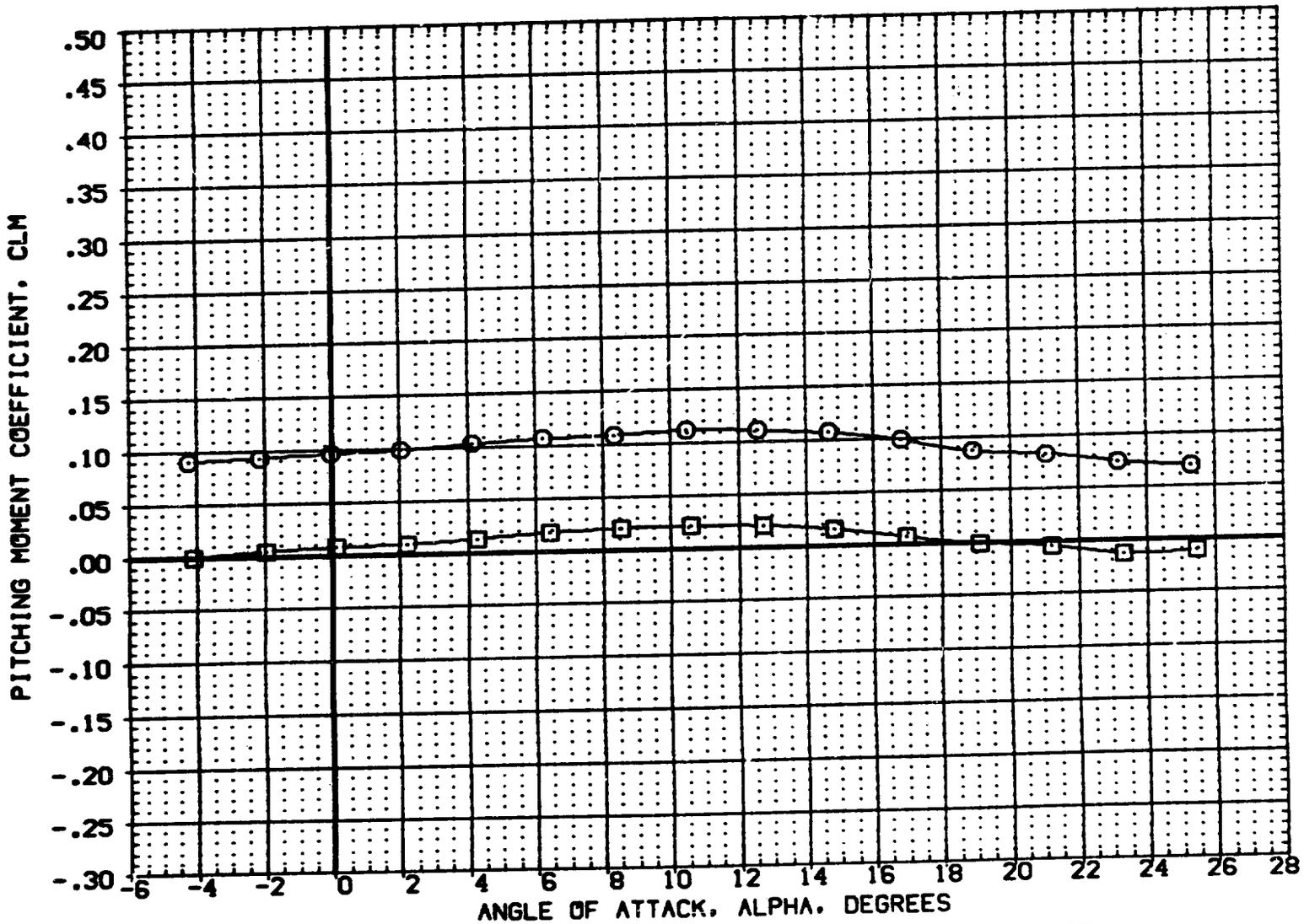


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(YDP135) O 0A21 B17C7H3M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

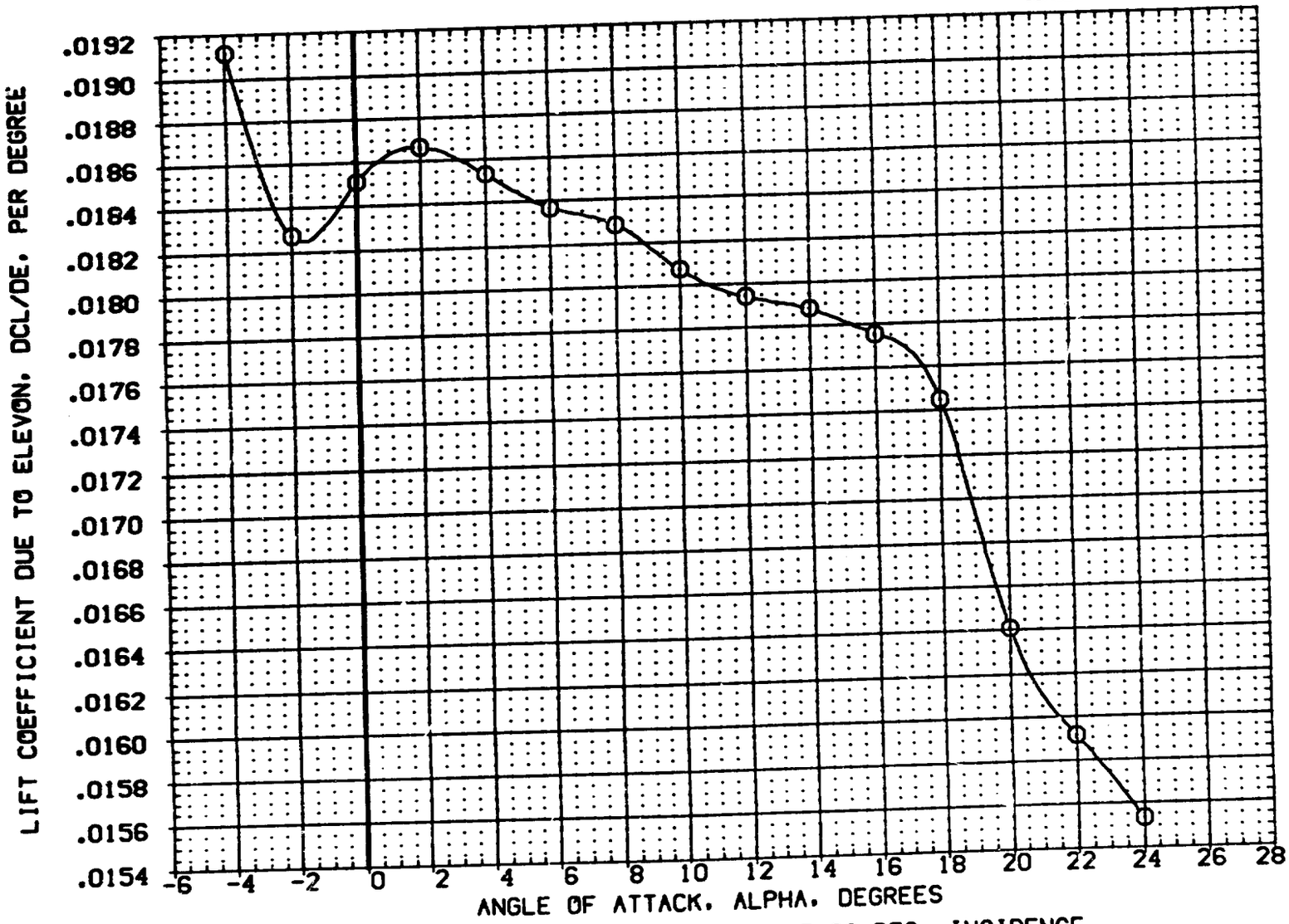


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(YOP135) ○ 0A21 B17C7H3M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

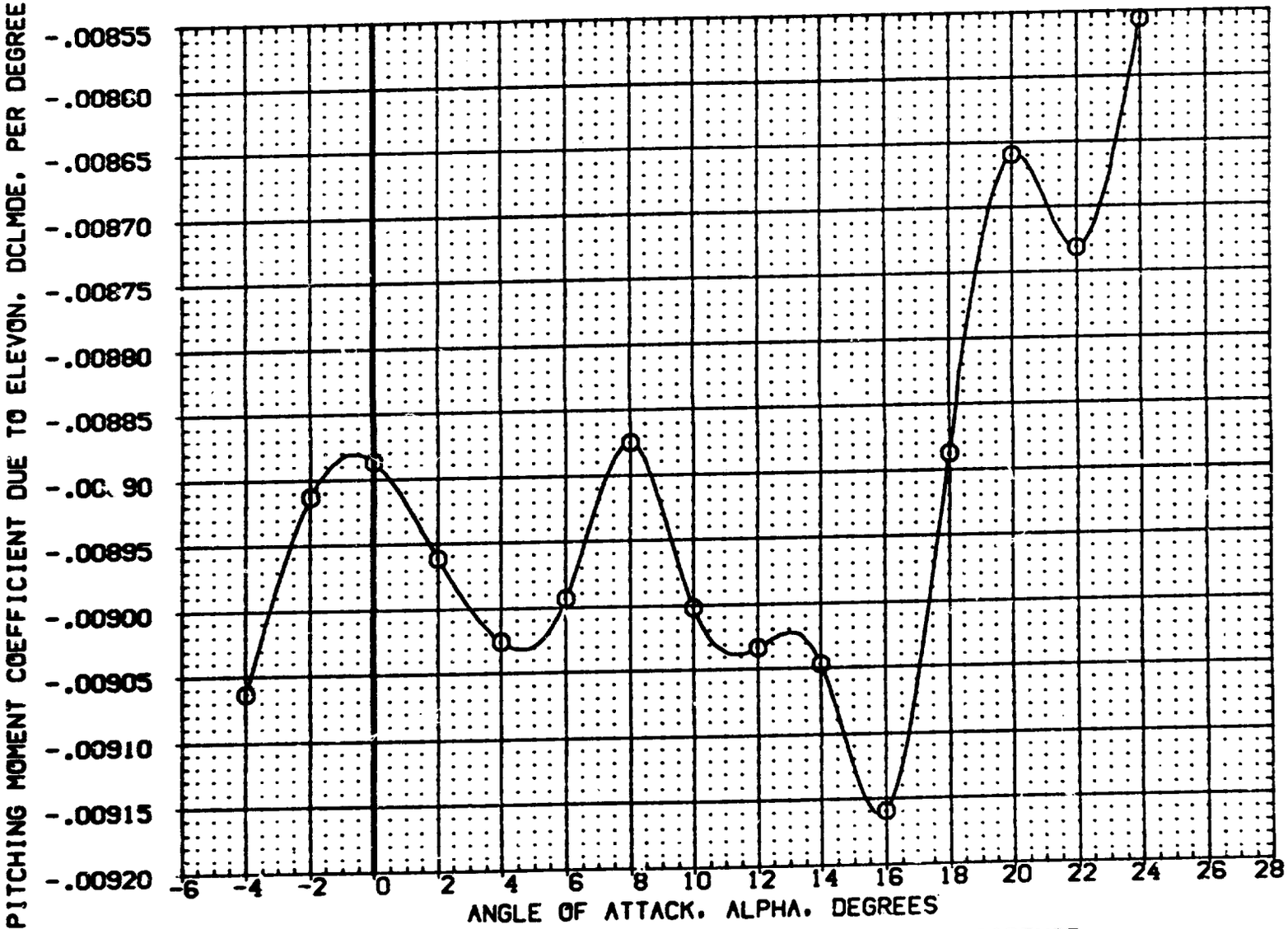


FIGURE 13 ELEVON EFFECTIVENESS WITH H3 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

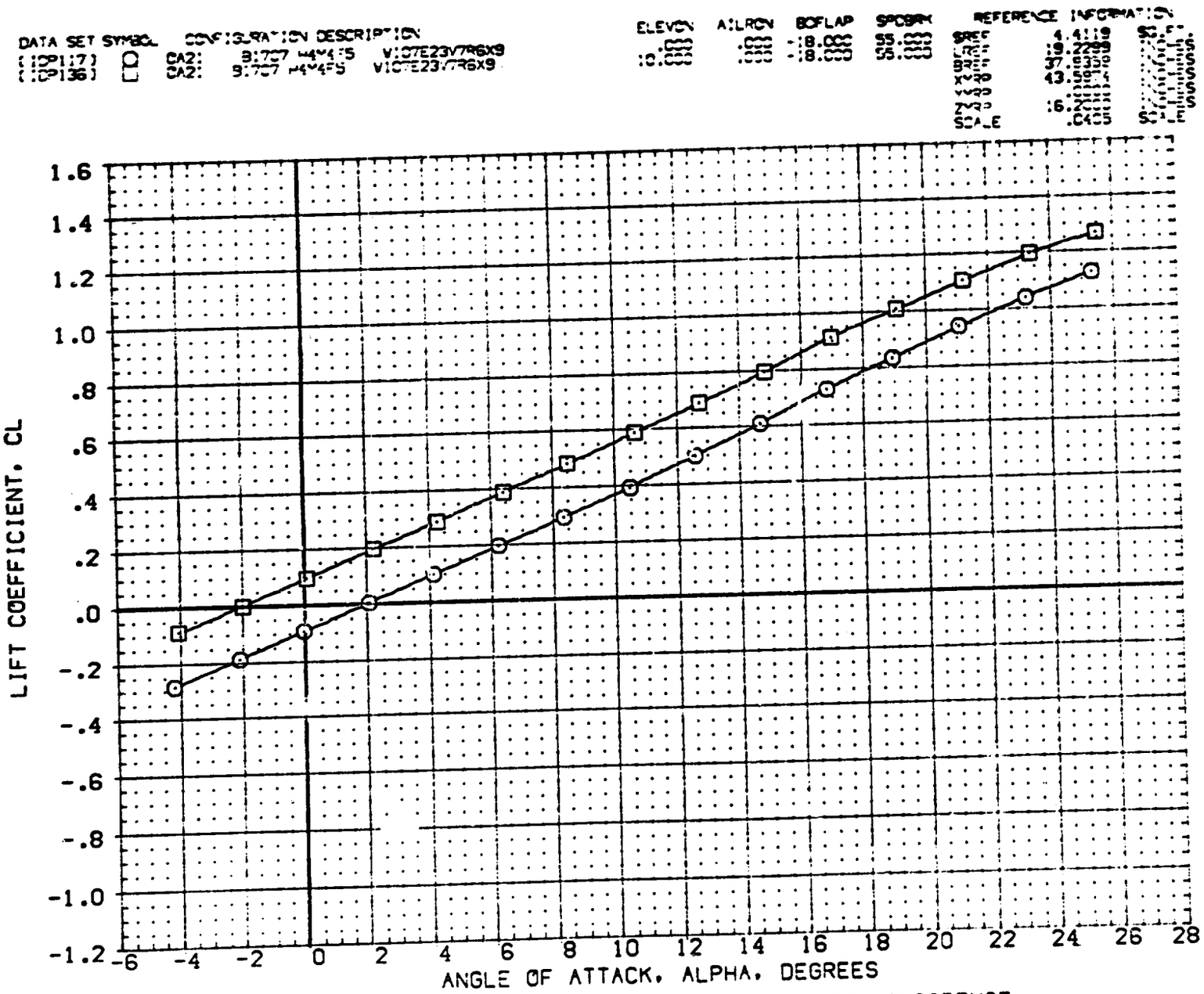


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

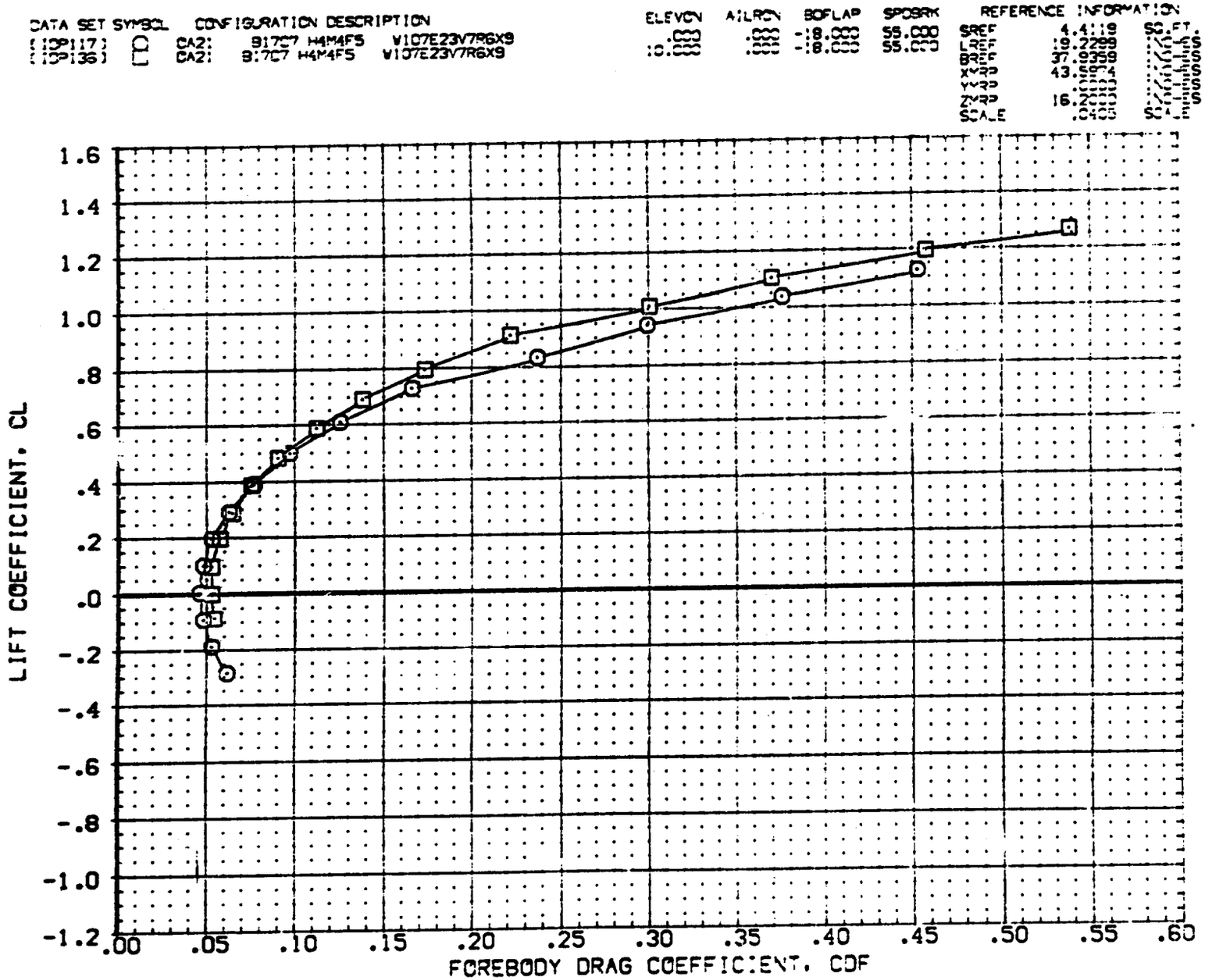


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(DP117)	○	OA21	B17C7 H4M4F5 V107E23V7R6X9
(DP136)	□	OA21	B17C7 H4M4F5 V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

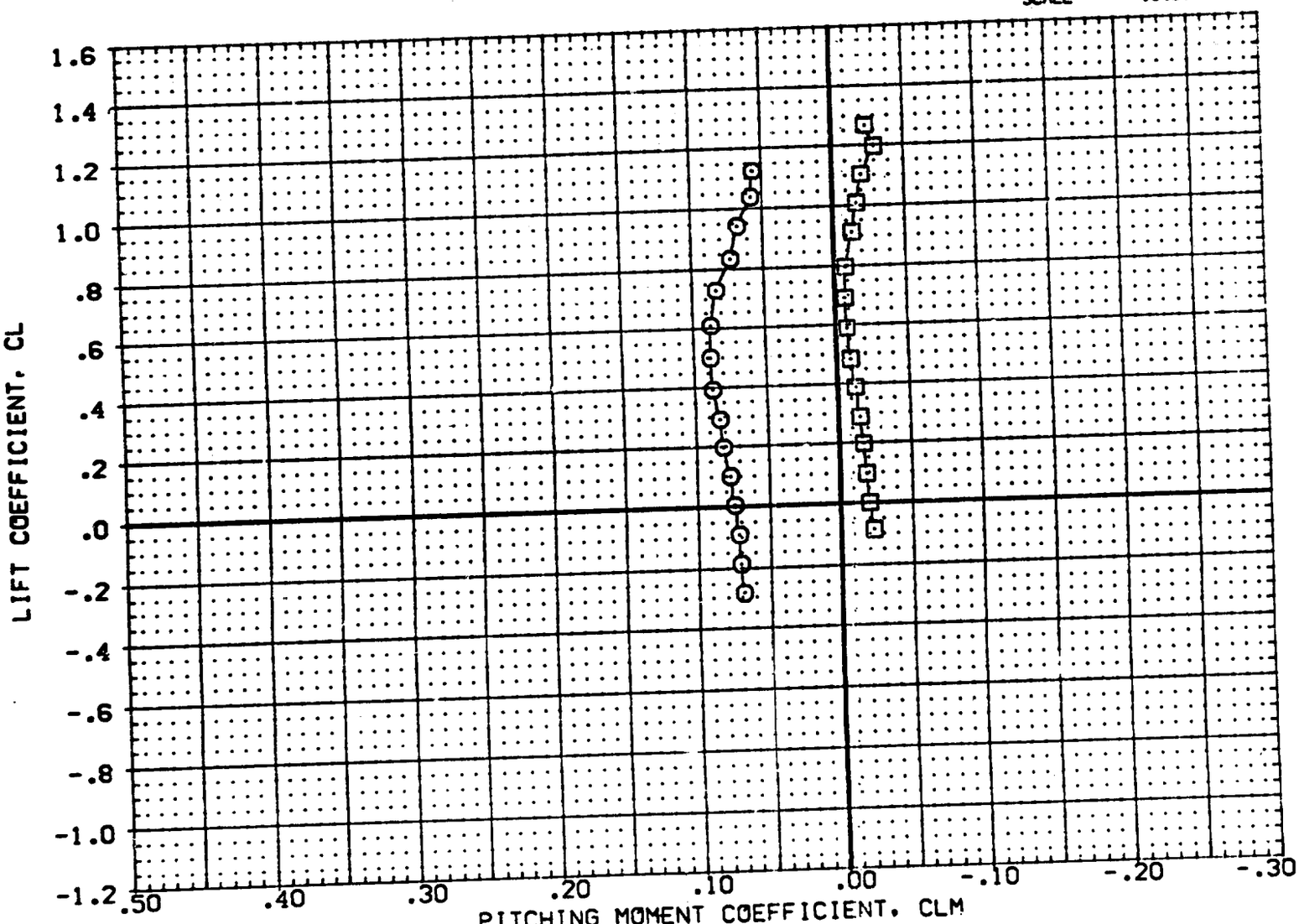


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP117)		0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP136)		0A21	B17C7 H4M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

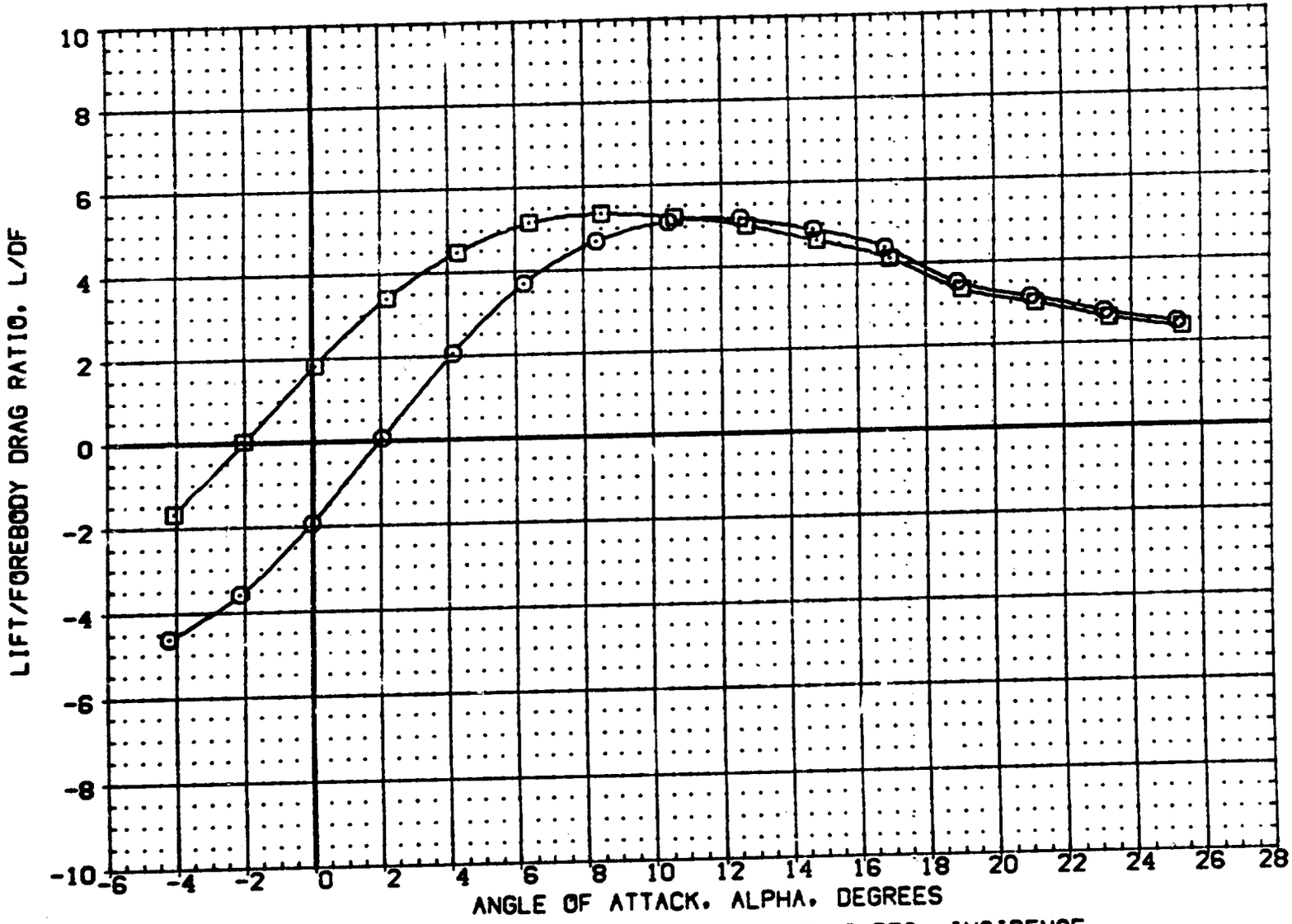


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
[IDP117]	○	0A21	B17C7 H4M4F5	W107E23V7R6X9
[IDP136]	□	0A21	B17C7 H4M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

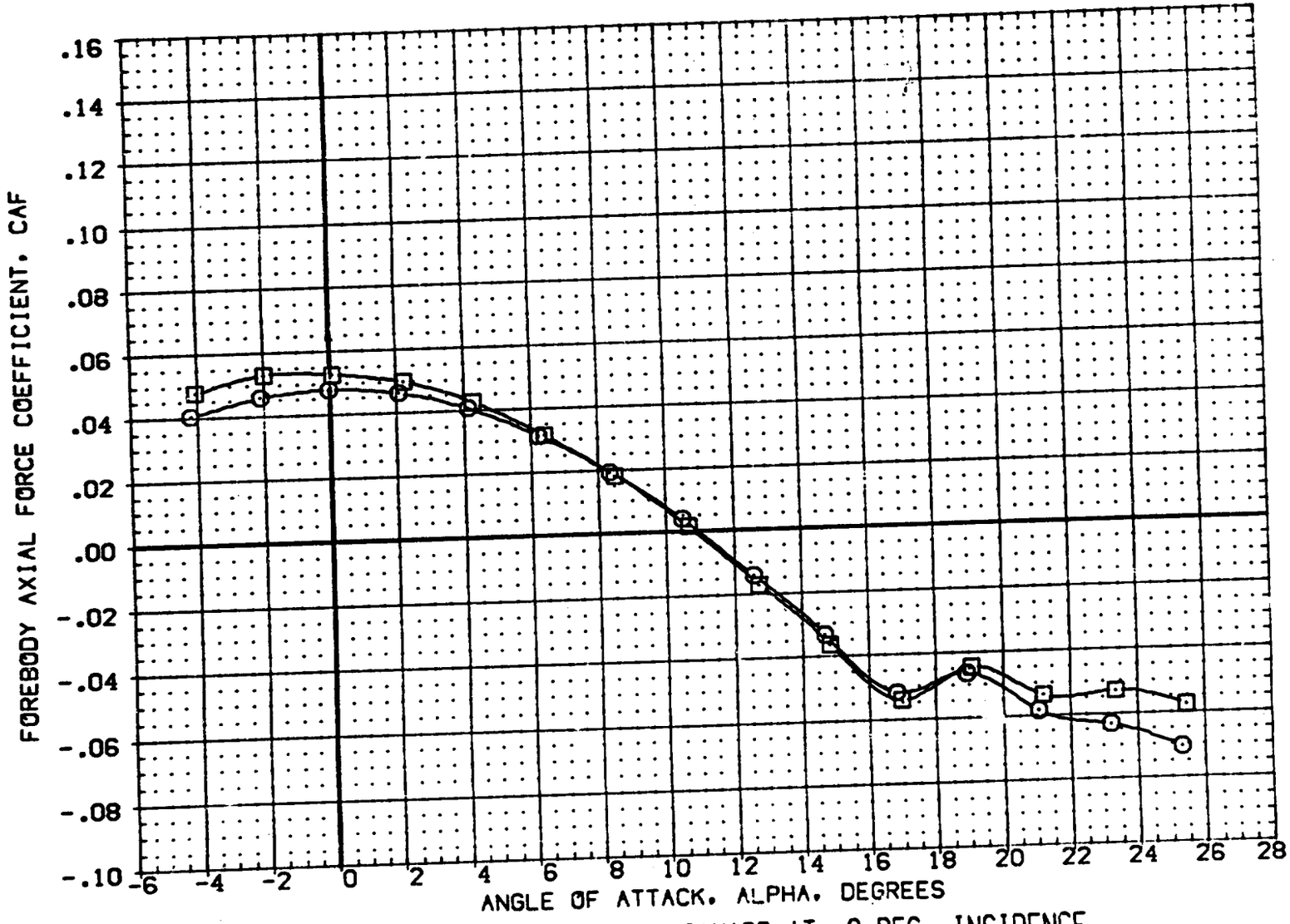


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
(IDP117)	○	0A21	B17C7 H4M4F5	V107E23V7\.6X9	.000	.000	-18.000	55.000
(IDP136)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

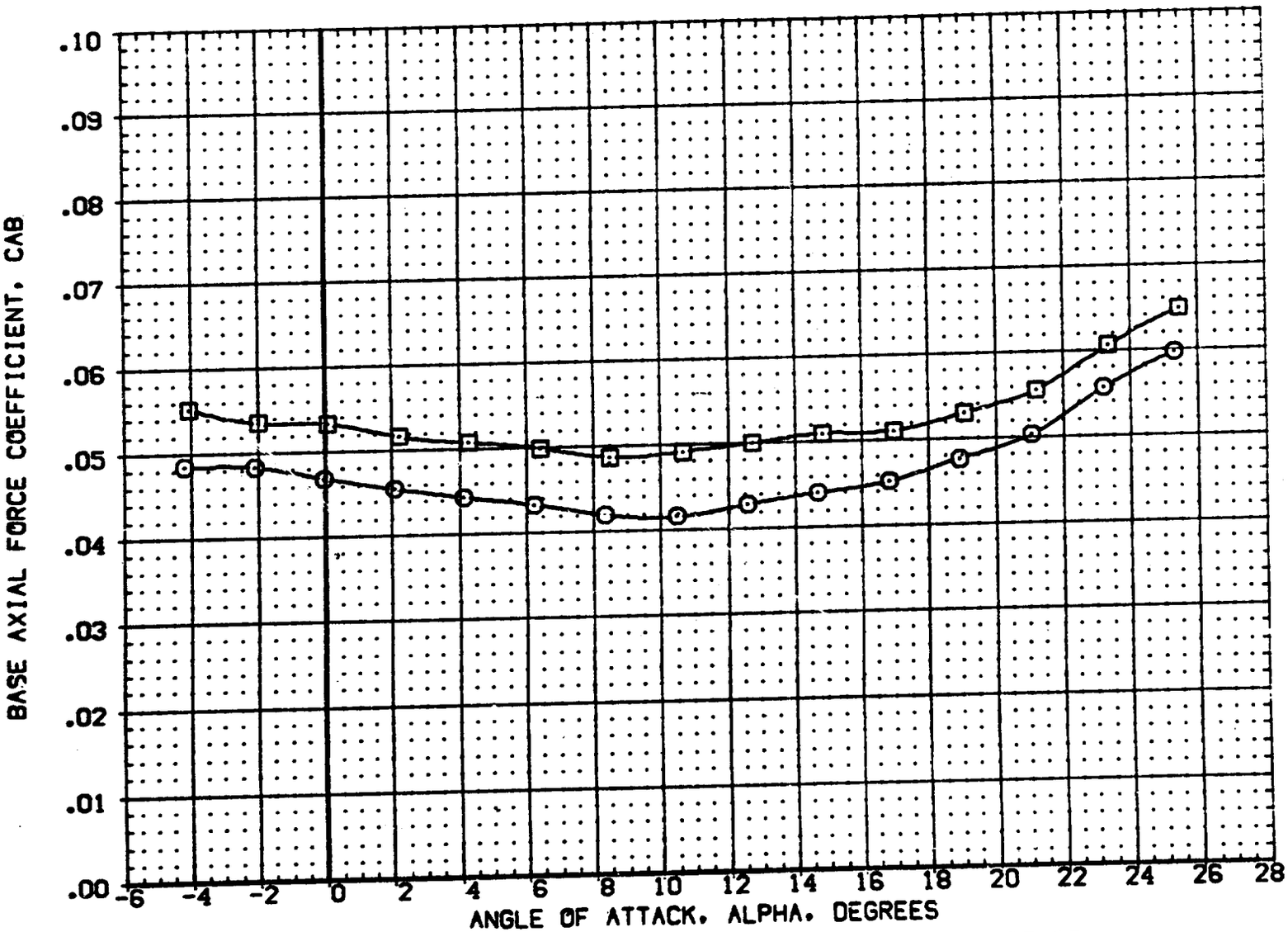


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPDBRK
(IDP117)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP136)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

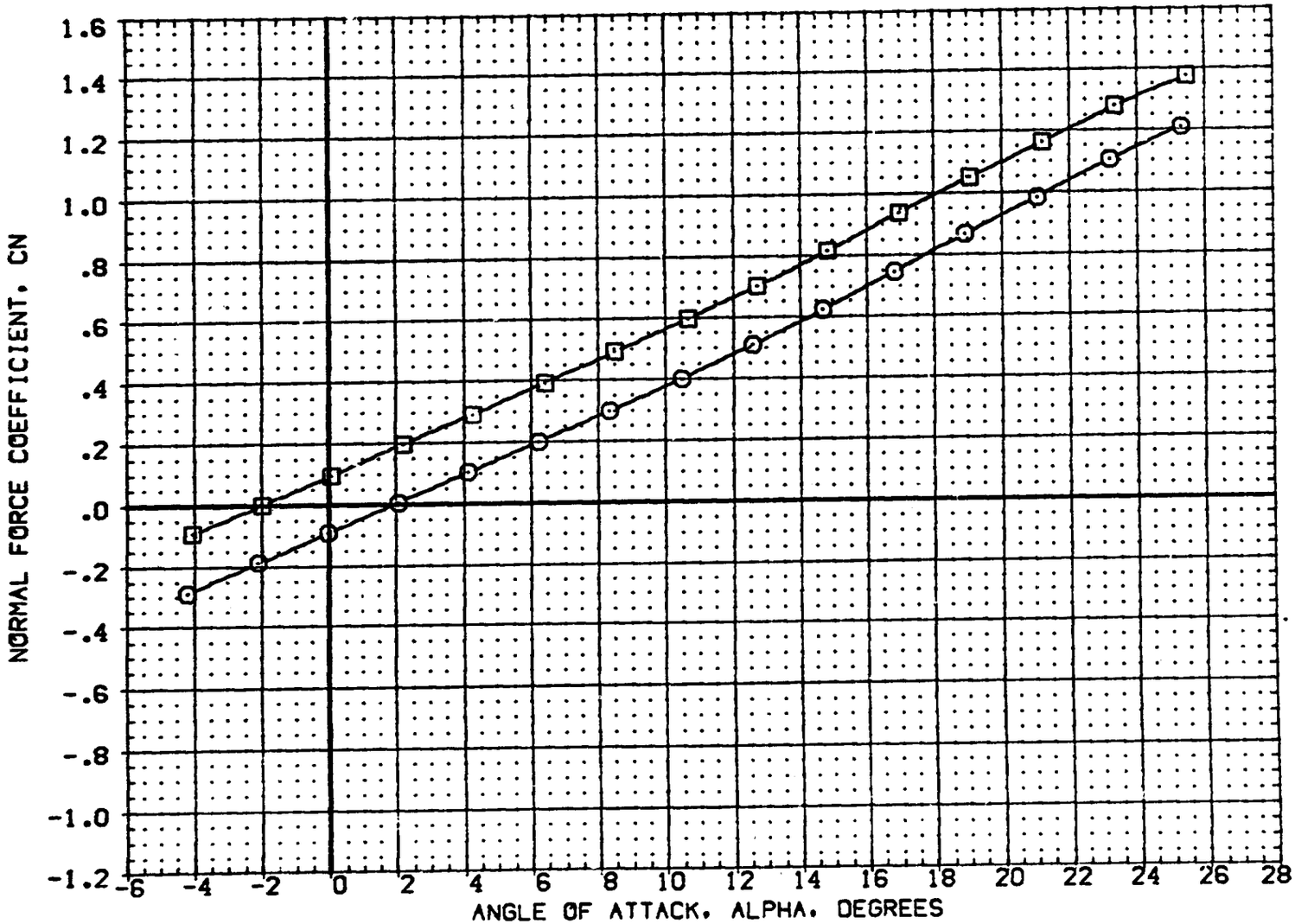


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
[IDP117]	8	0A21	B17C7 H4M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
[IDP136]	8	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

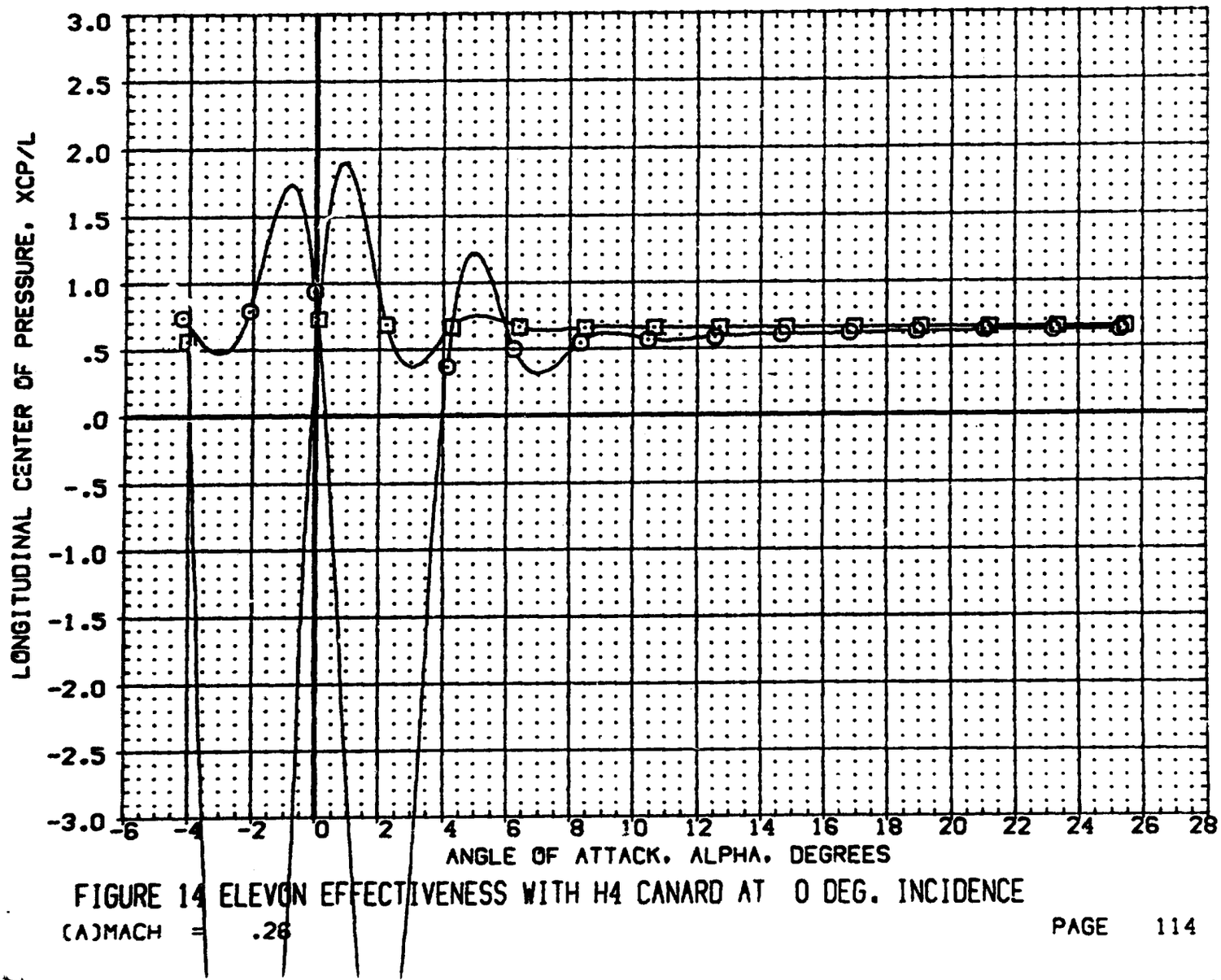


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP117)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP136)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

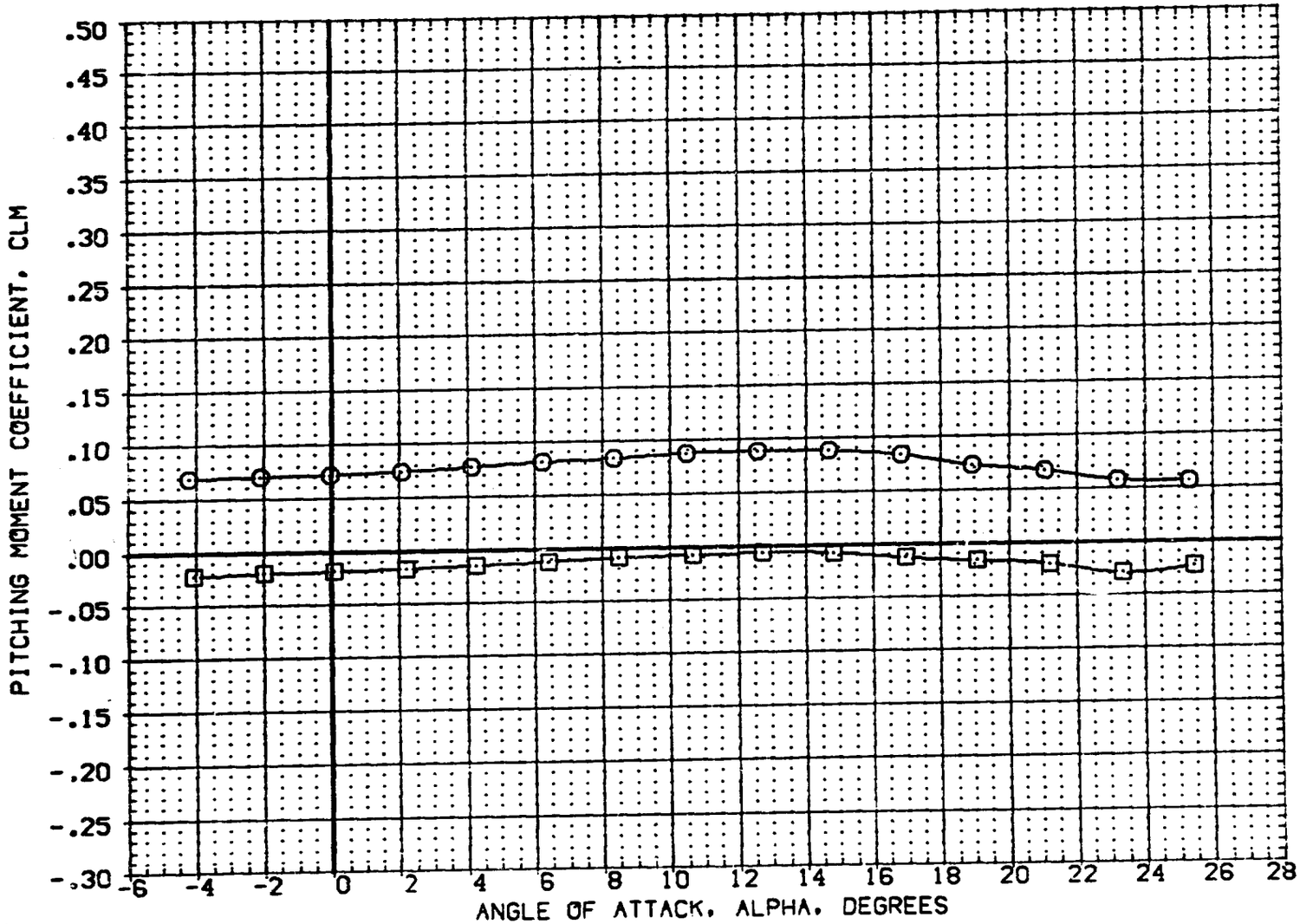


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CDP136) ○ 0A21 B17C7 H4M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2003	INCHES
SCALE	.0405	SCALE

FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP136) ○ 0A21 B17C7 H4M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

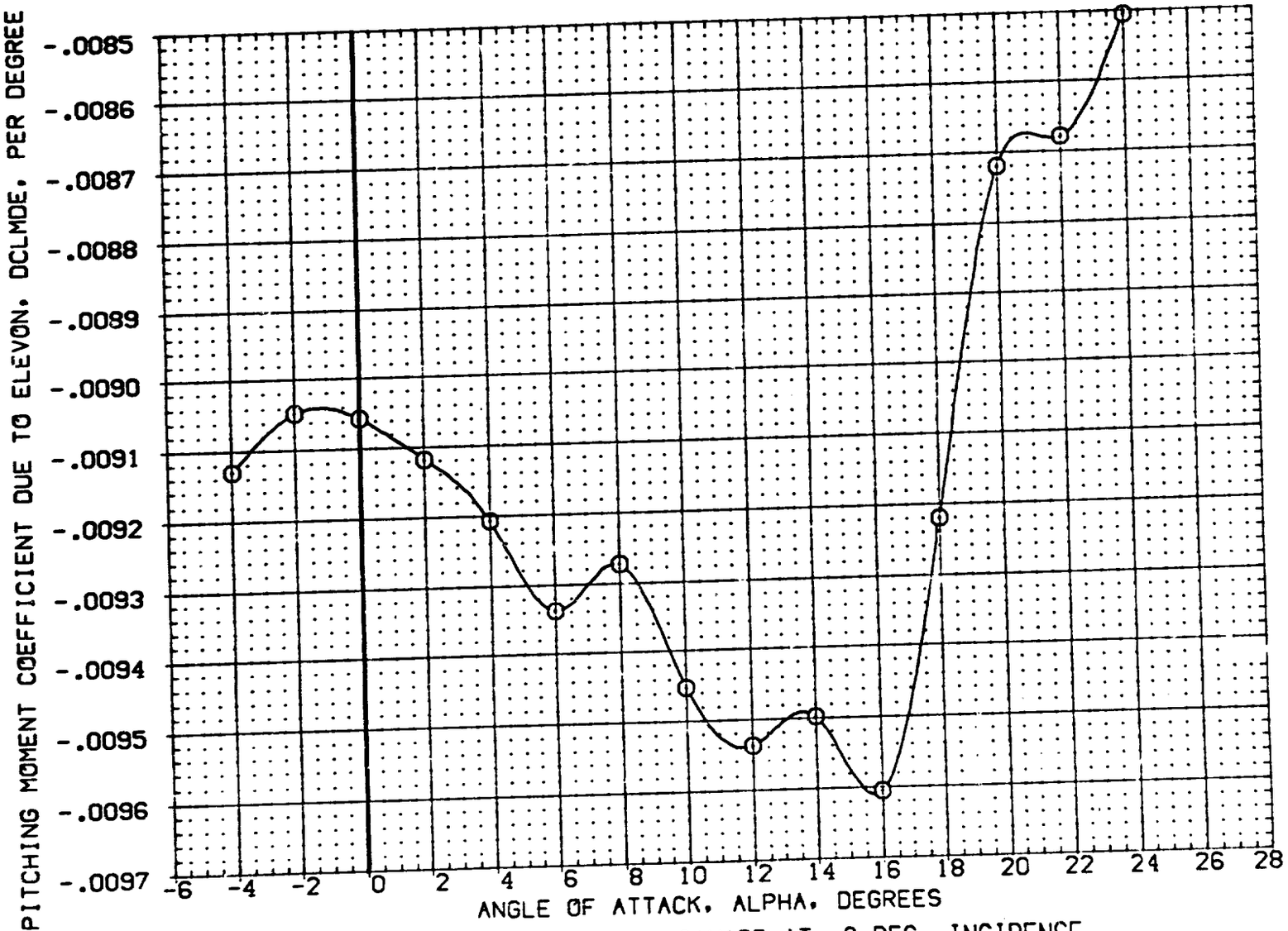


FIGURE 14 ELEVON EFFECTIVENESS WITH H4 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(IDP118)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP137)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

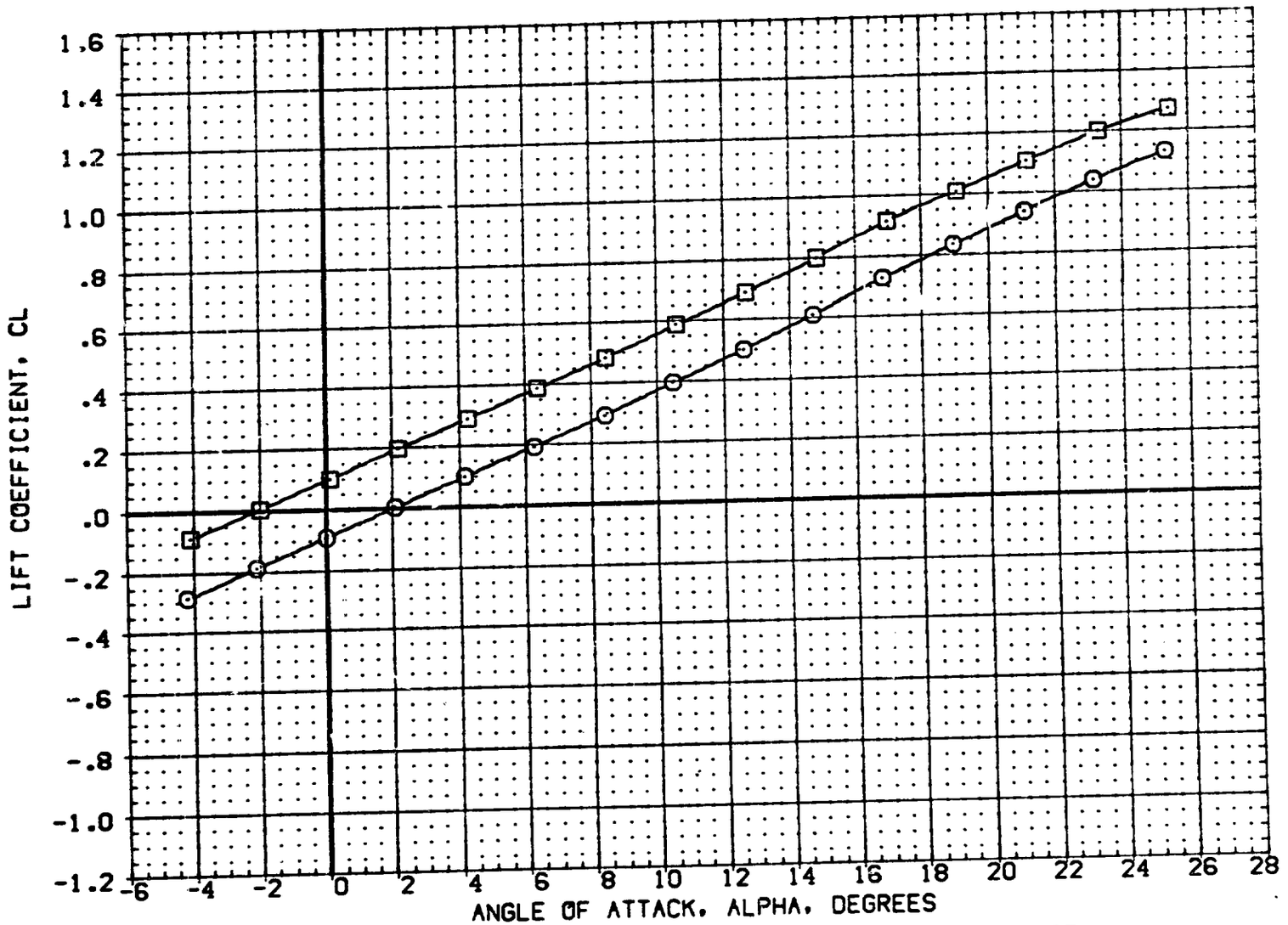


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBO.		CONFIGURATION DESCRIPTION		
[IDP118]	○	0A21	B17C7 H4M4F5	W107E23V7R6X9
[IDP137]	□	0A21	B17C7 H4M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

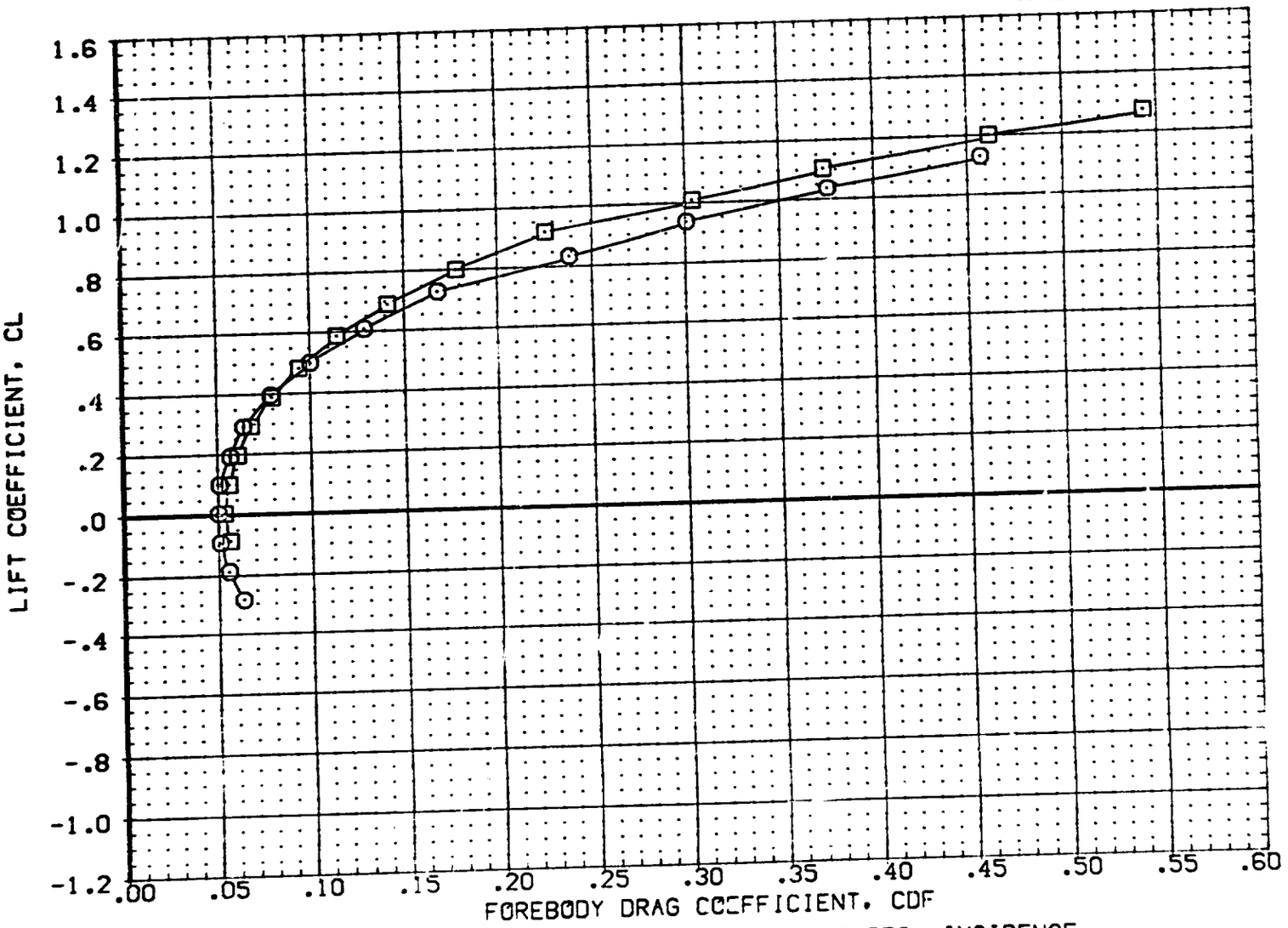


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP118)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP137)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

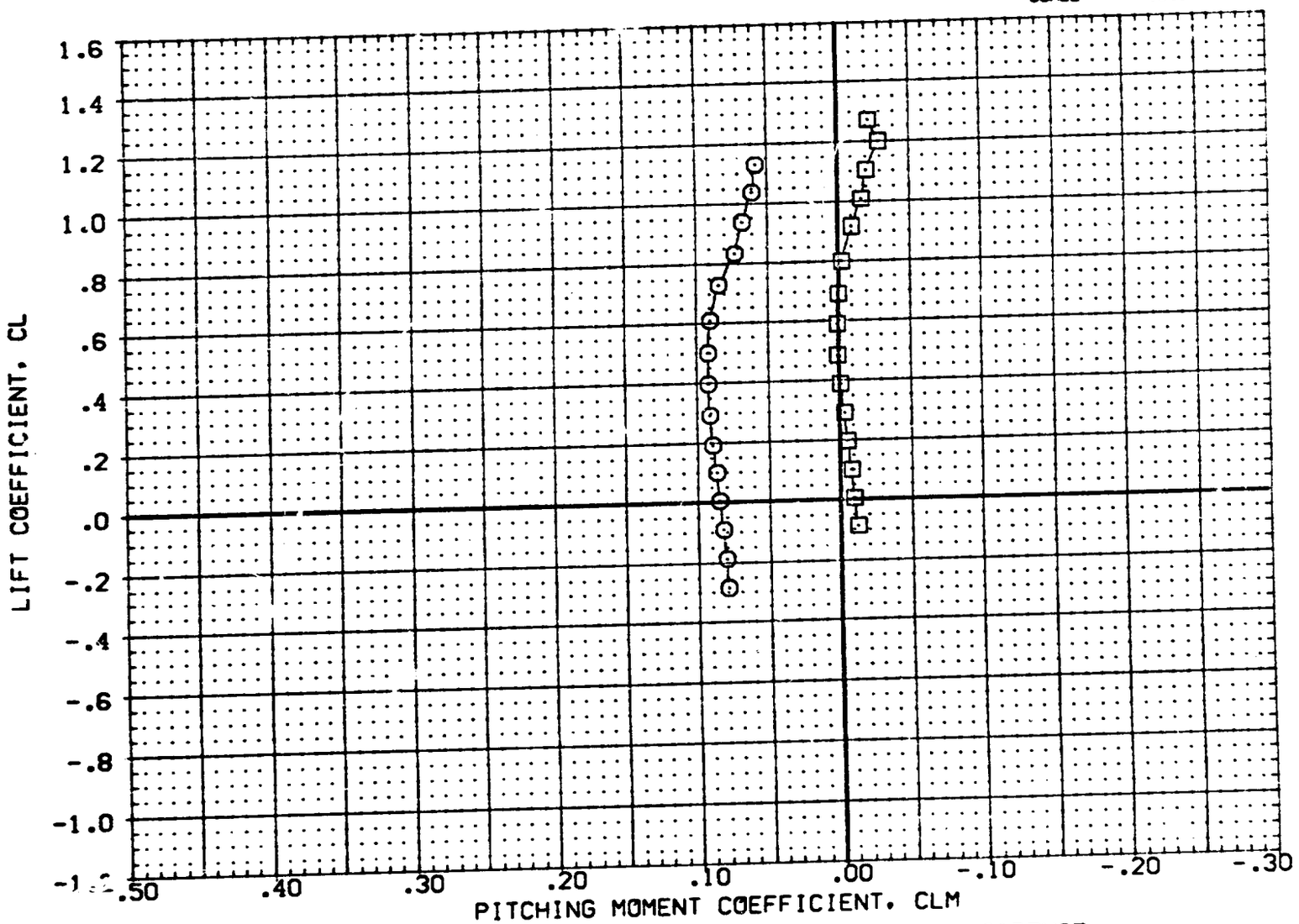


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP118)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP137)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

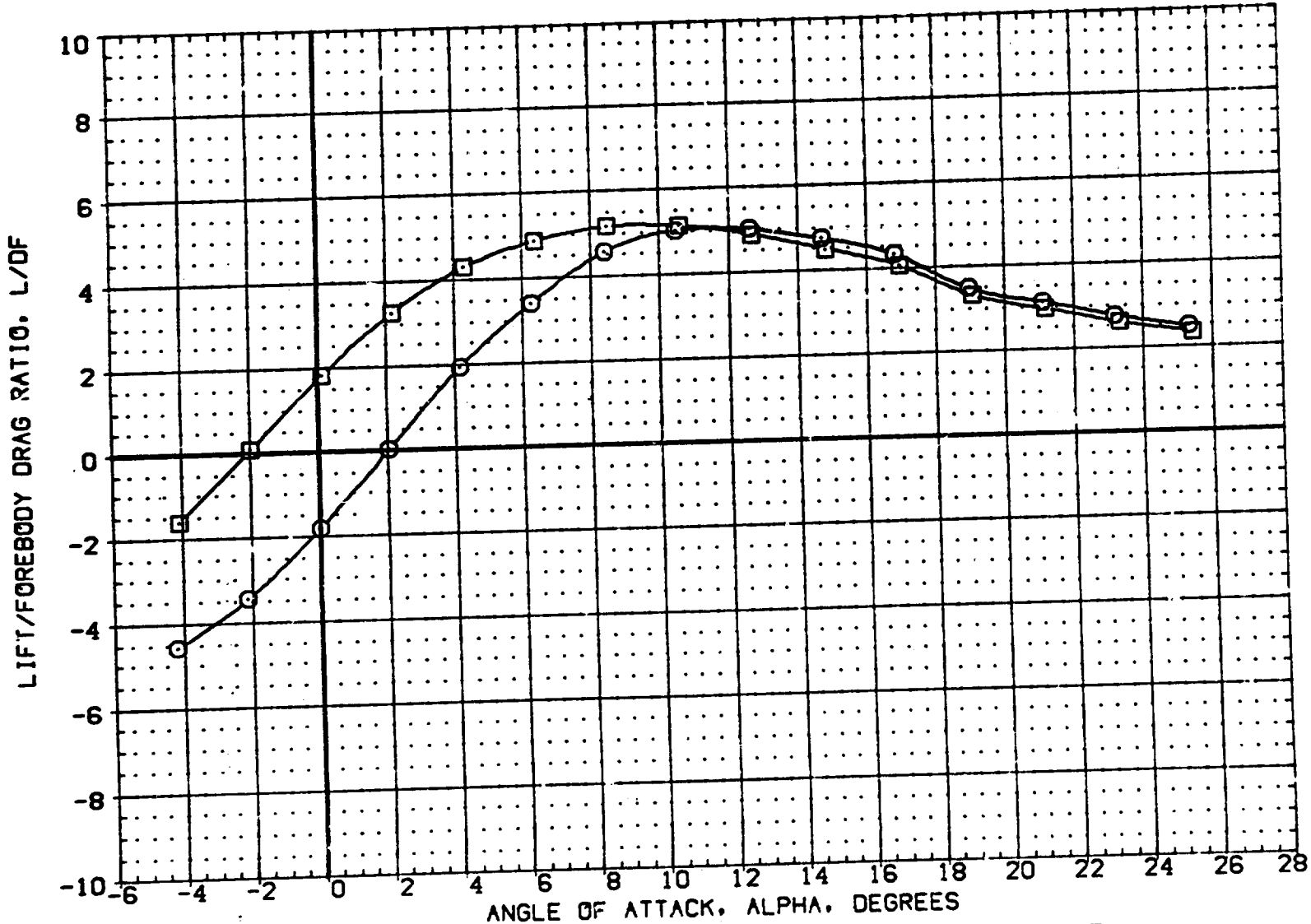


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(IDP118)	○	0A21	B17C7 H4M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(IDP137)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

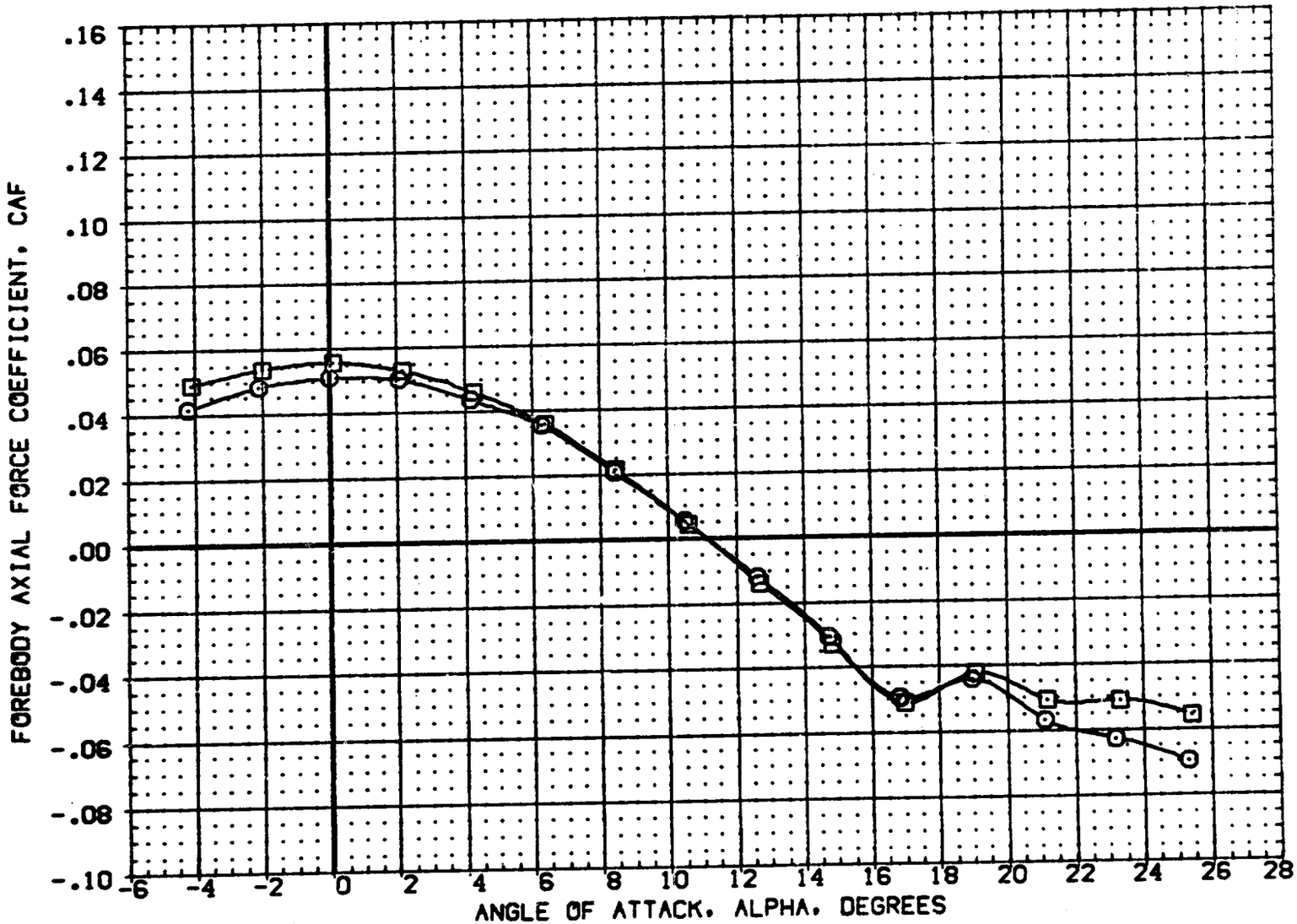


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON	AILRON	BDFLAP	SPOBRK
(IDP118)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9		.000	.000	-18.000	55.000
(IDP137)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9		10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

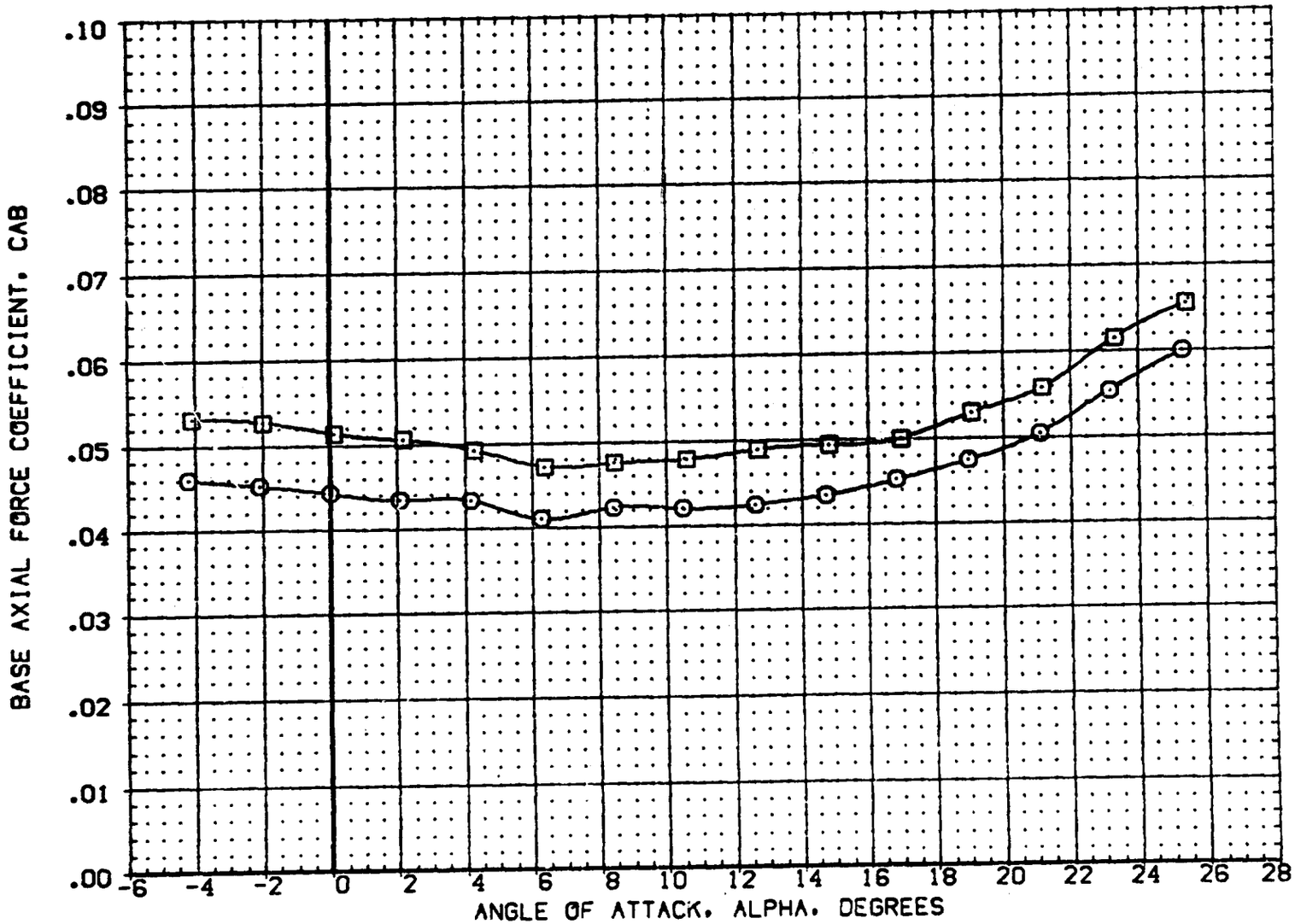


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP118)	⊡	0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP137)	⊟	0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

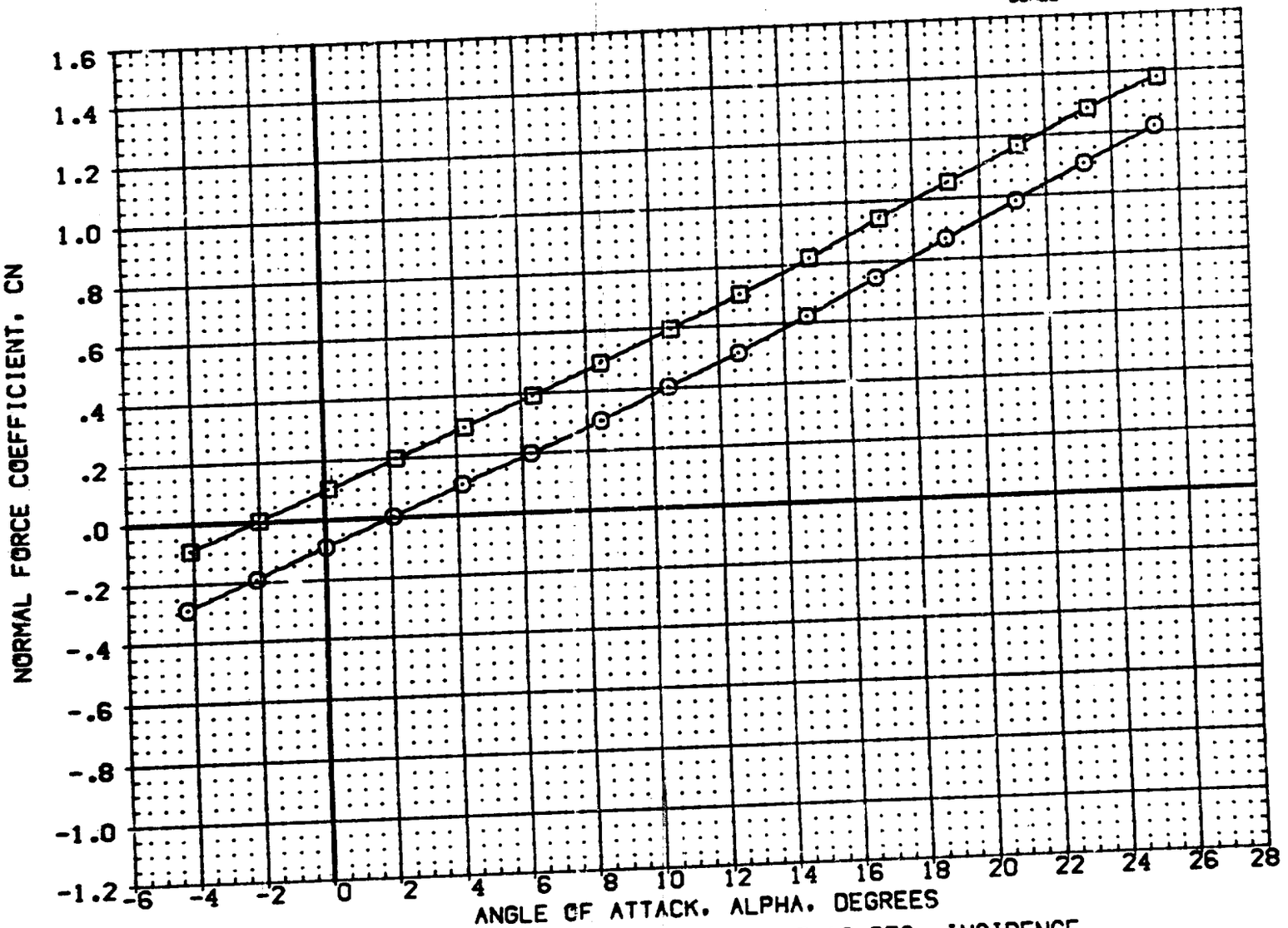


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP118)	○	0A21	B17C7 H4M4F5	V107E23V7RGX9
(IDP137)	□	0A21	B17C7 H4M4F5	V107E23V7RGX9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

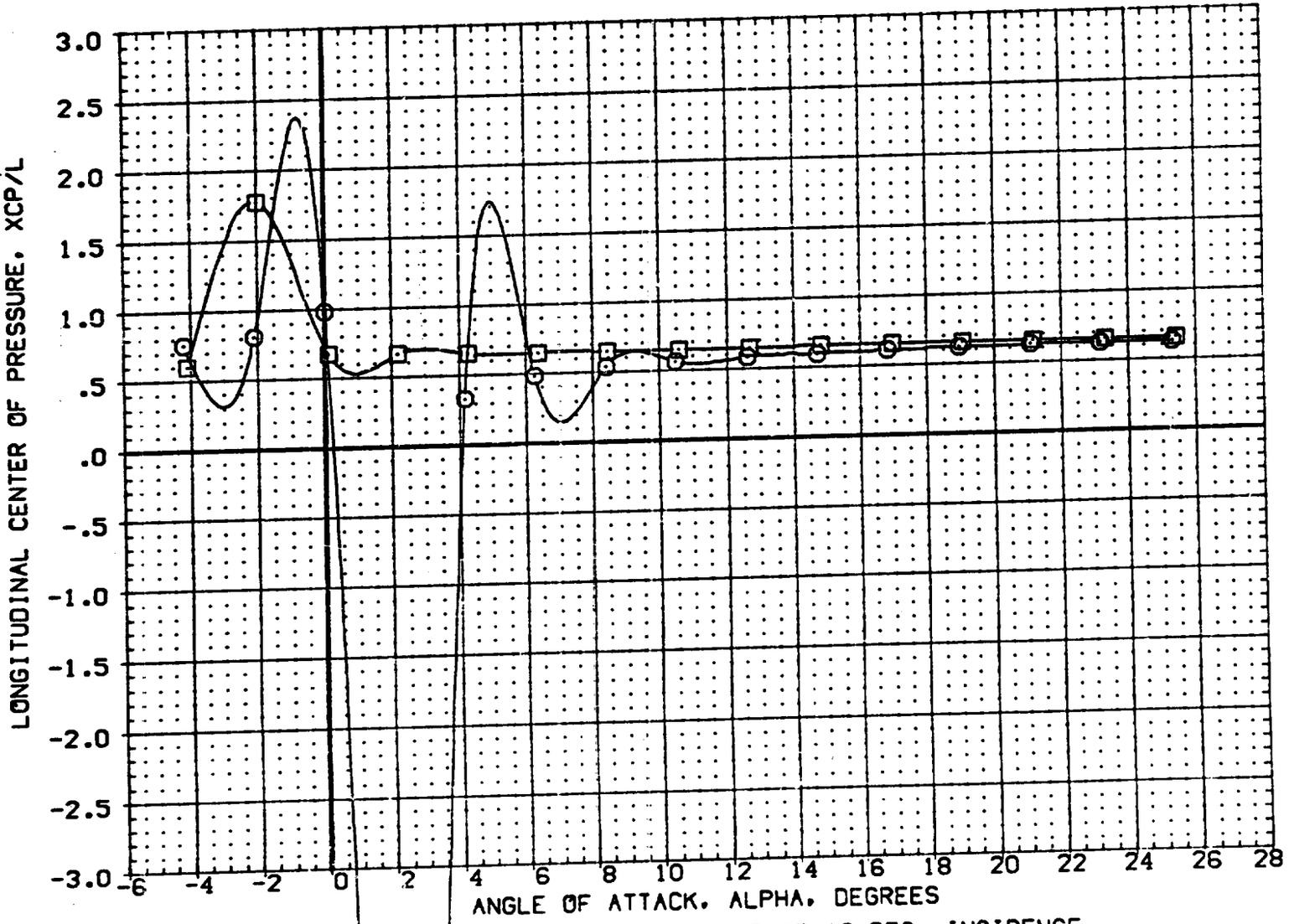


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPOBRK
(IDP118)	○	0A21 B17C7 H4M4F5 V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP137)	□	0A21 B17C7 H4M4F5 V107E23V7R6X5	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

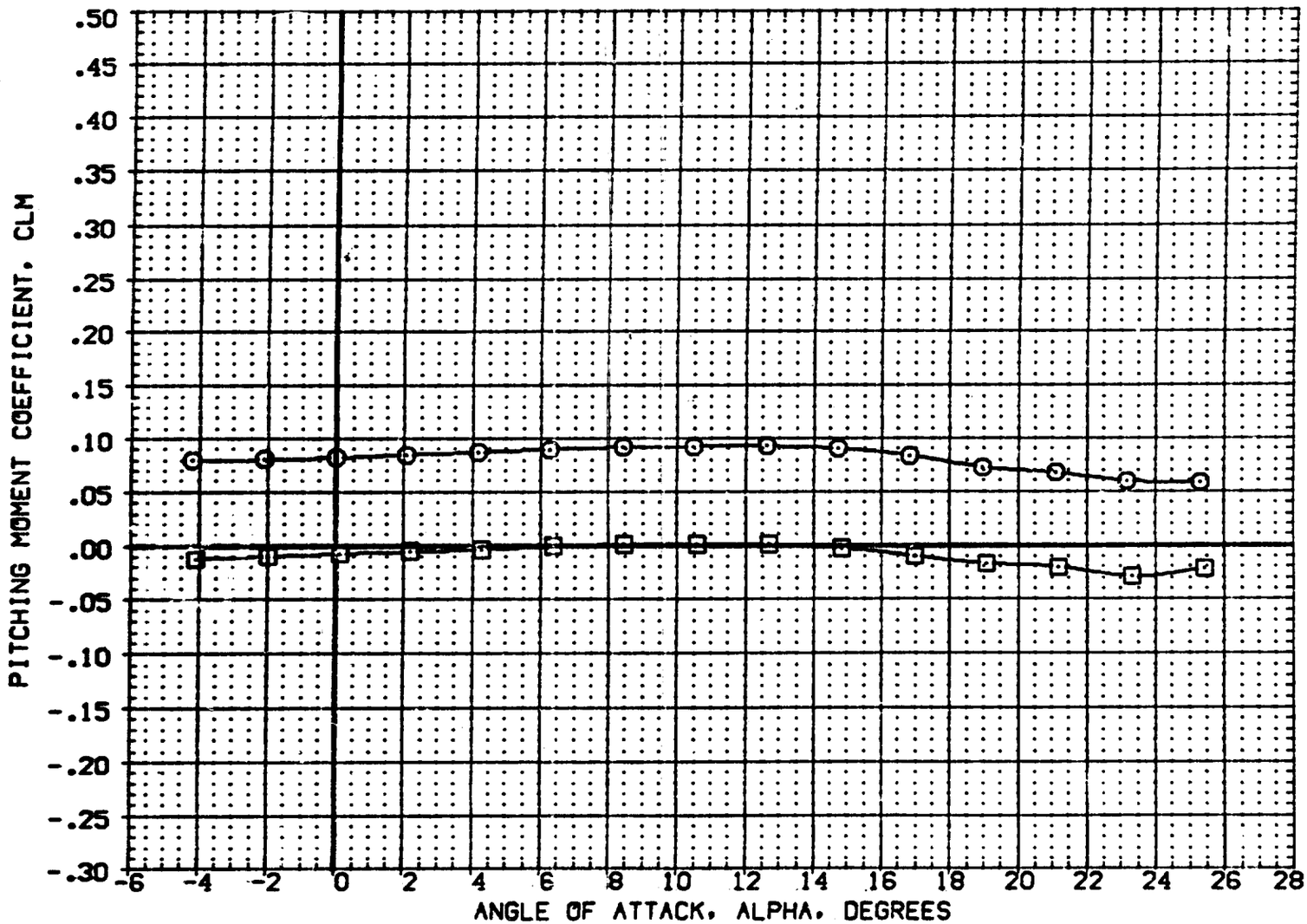


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DOP137)	O	0A21 B17C7 H4M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

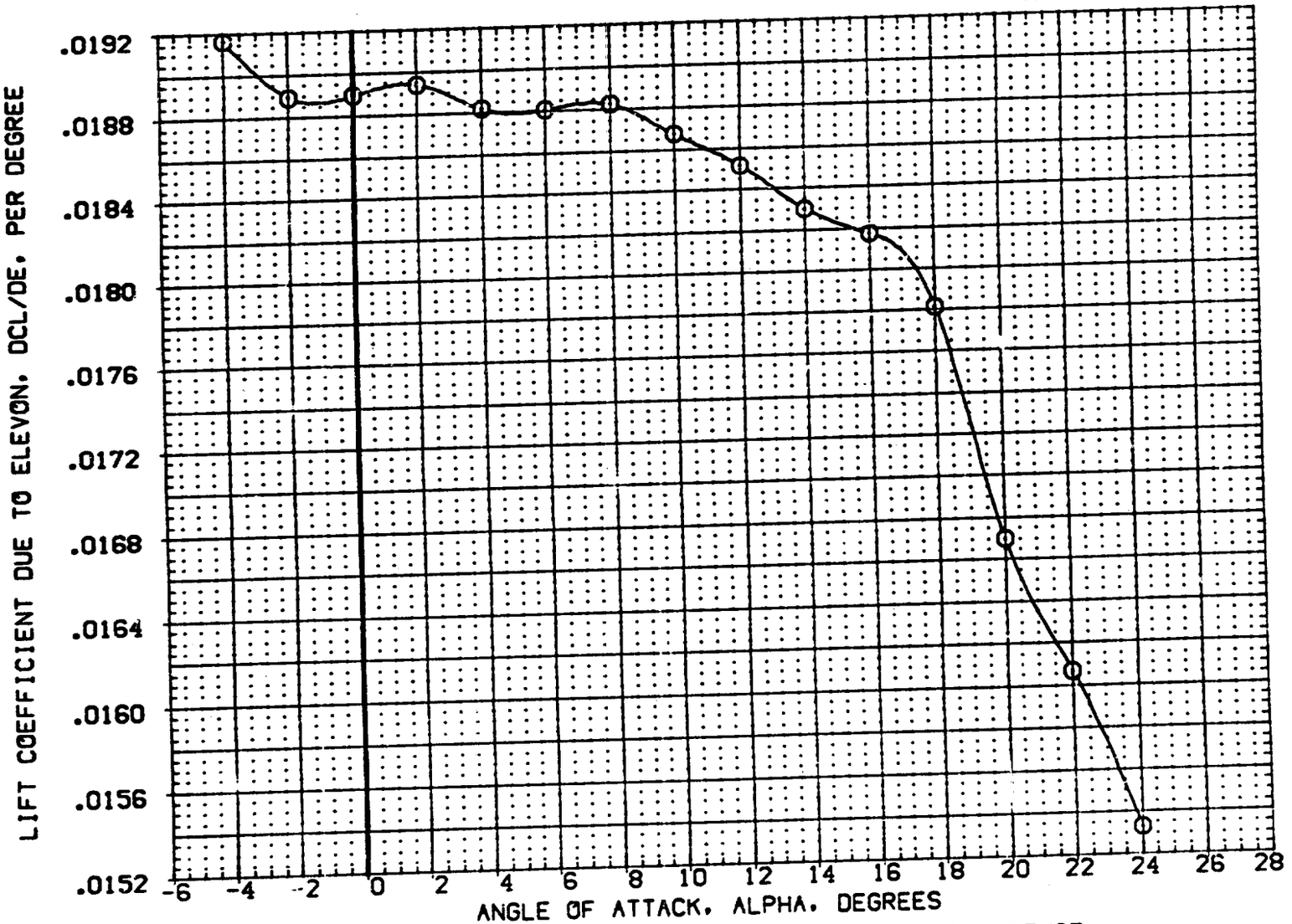


FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(OOP137) O	6A21 B17C7 H4M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 15 ELEVON EFFECTIVENESS WITH H4 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
[IOP119]	⊖	0A21	B17C7 H4M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
[IOP138]	⊟	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.2000	INCHES
SCALE	.0405	SCALE

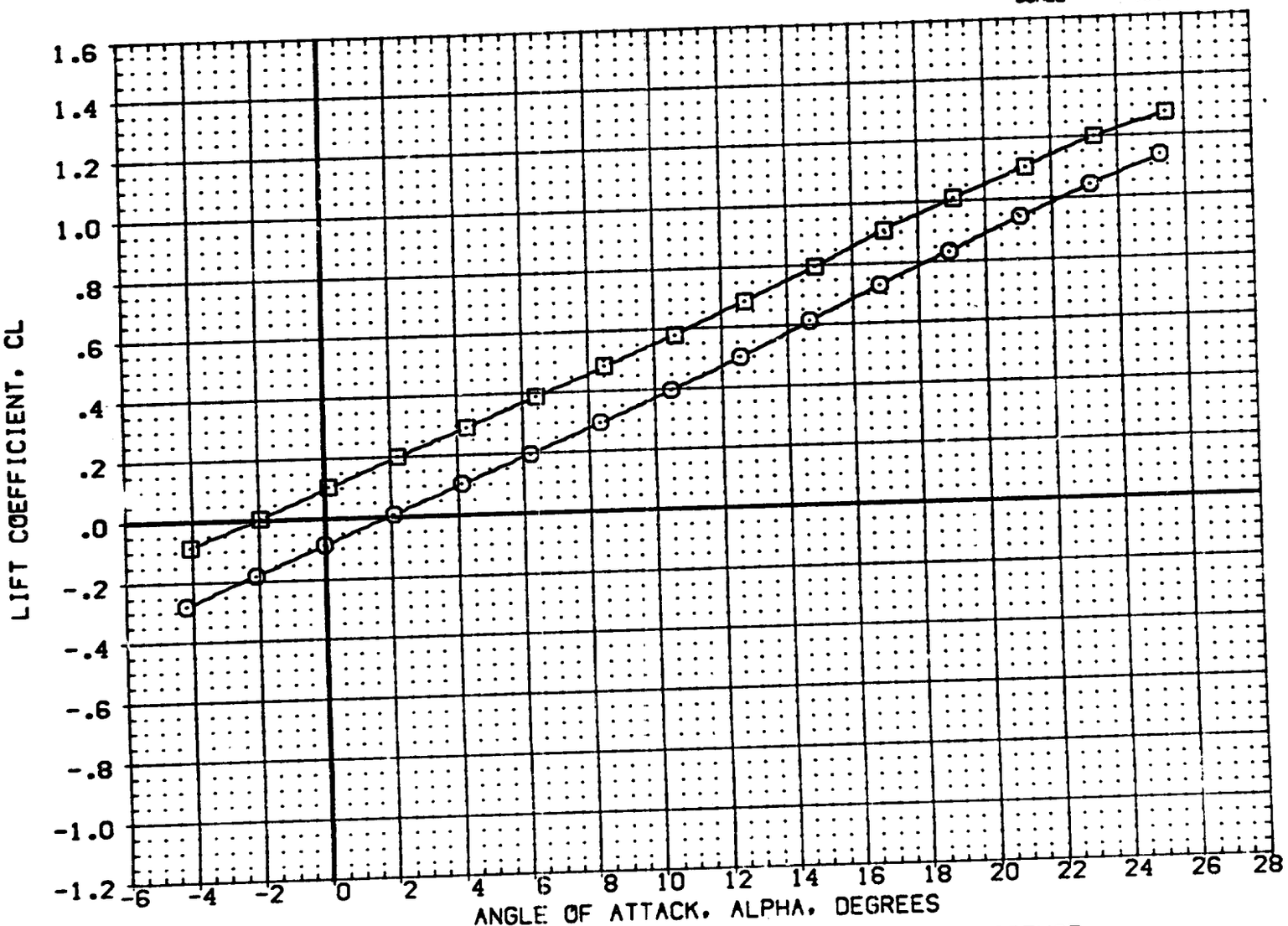


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP119)	⊡	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP138)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

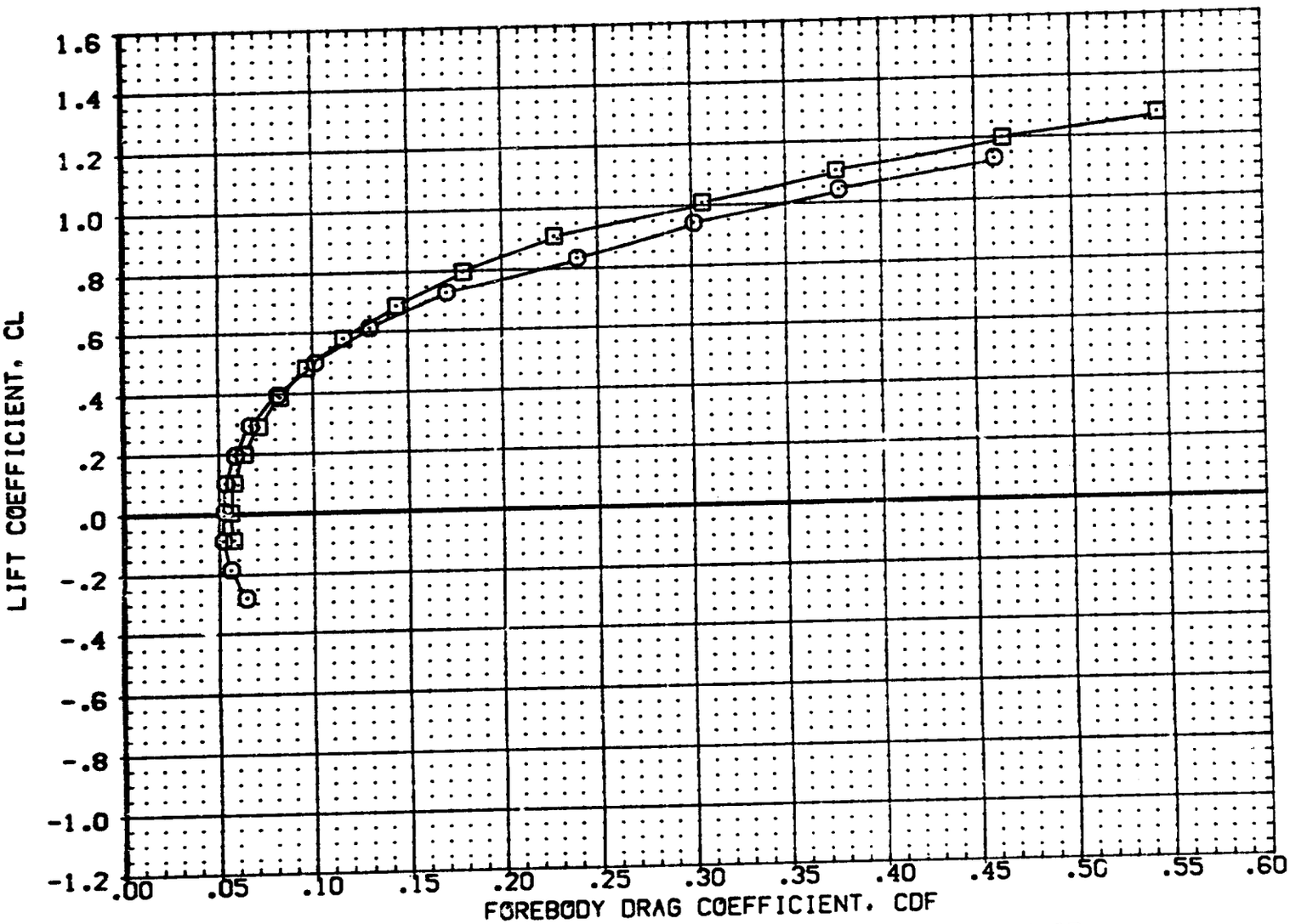


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP119)		0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP138)		0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

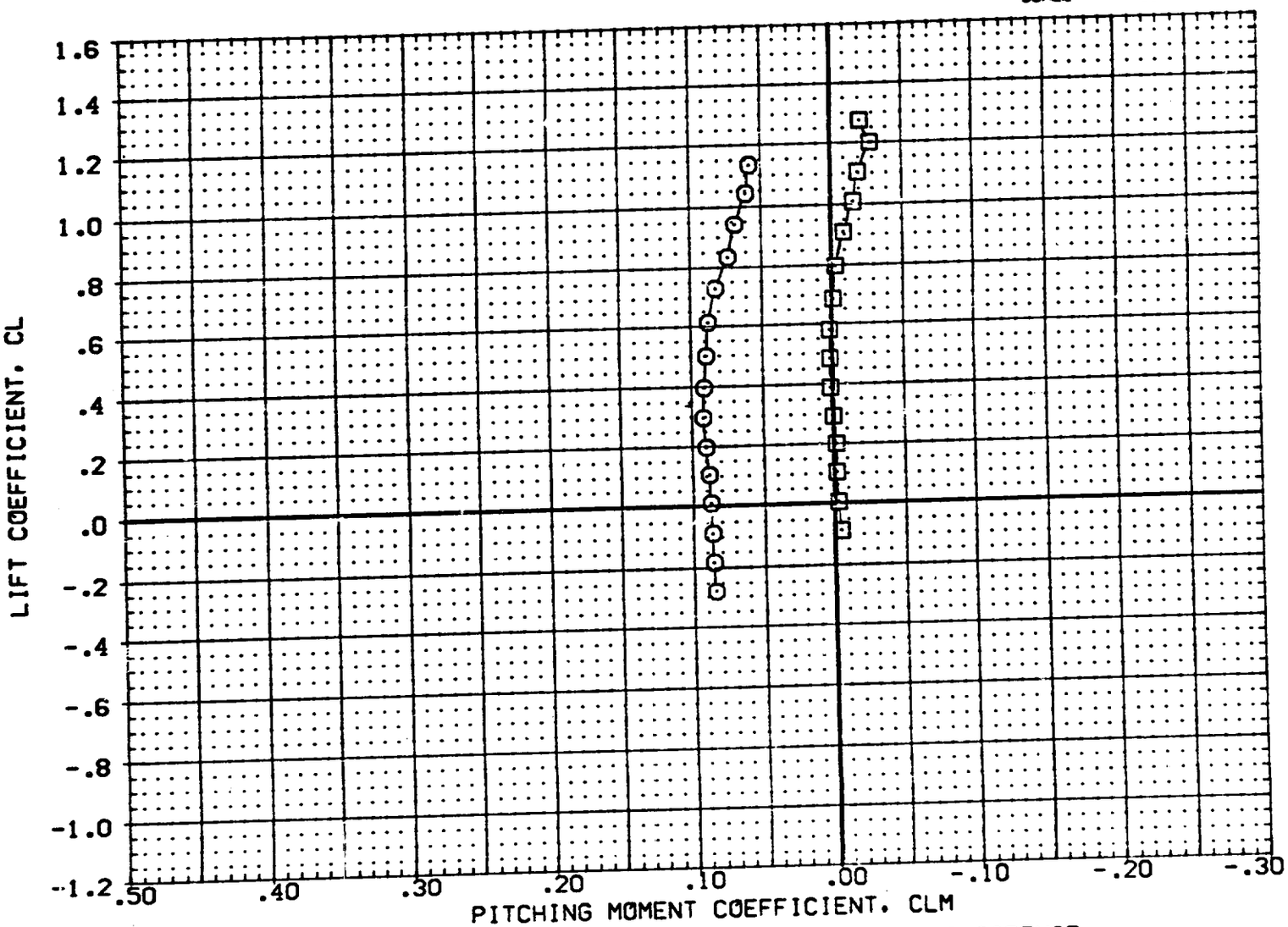


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP119)	○	OA21	B17C7 H4M4F5	V107E23V7R6X9
(IDP138)	□	OA21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

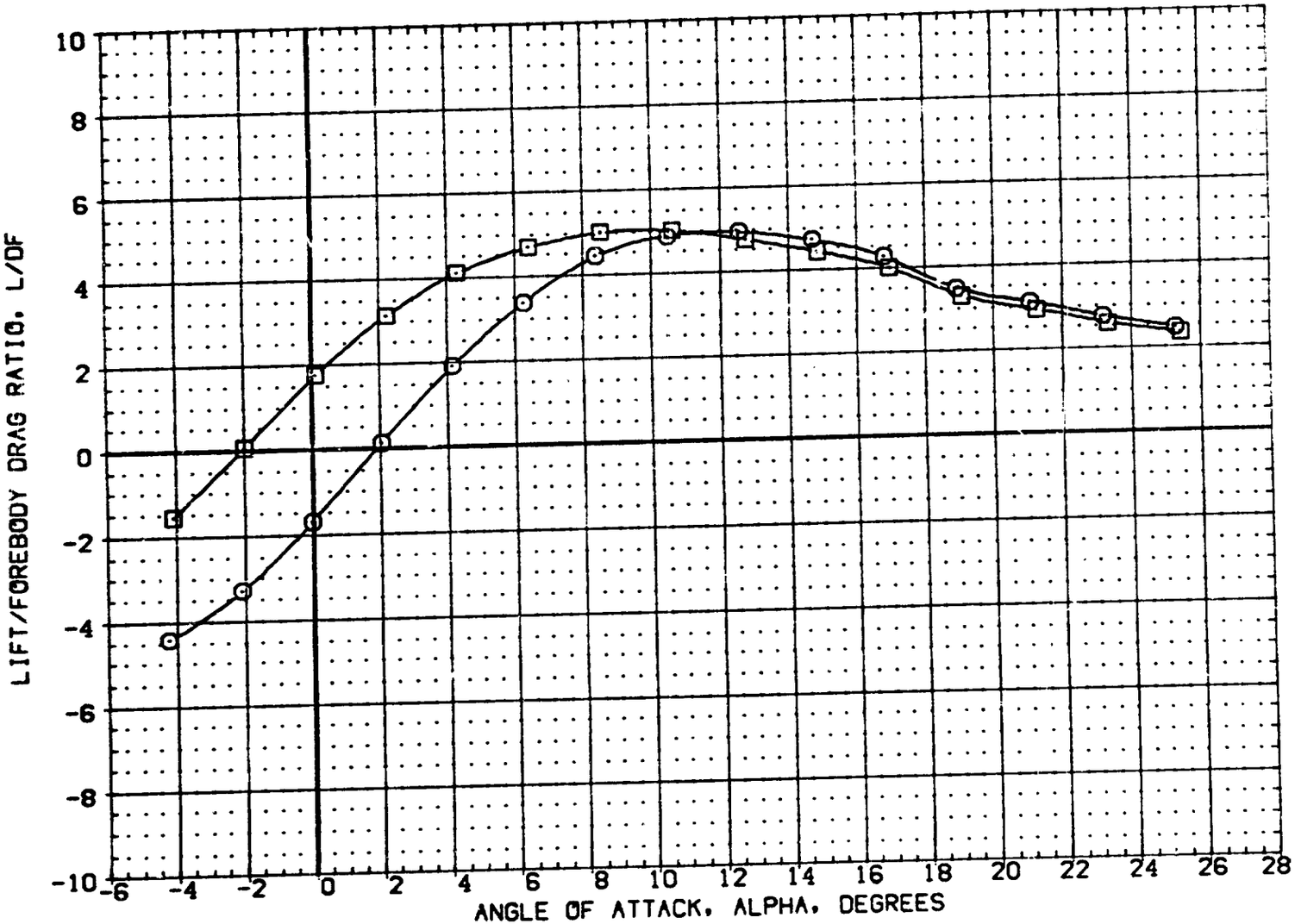


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(IDP119)	○	0A21	B17C7 H4M4F5 V107E23V7R6X9
(IDP138)	□	0A21	B17C7 H4M4F5 V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP119)	○	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP138)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

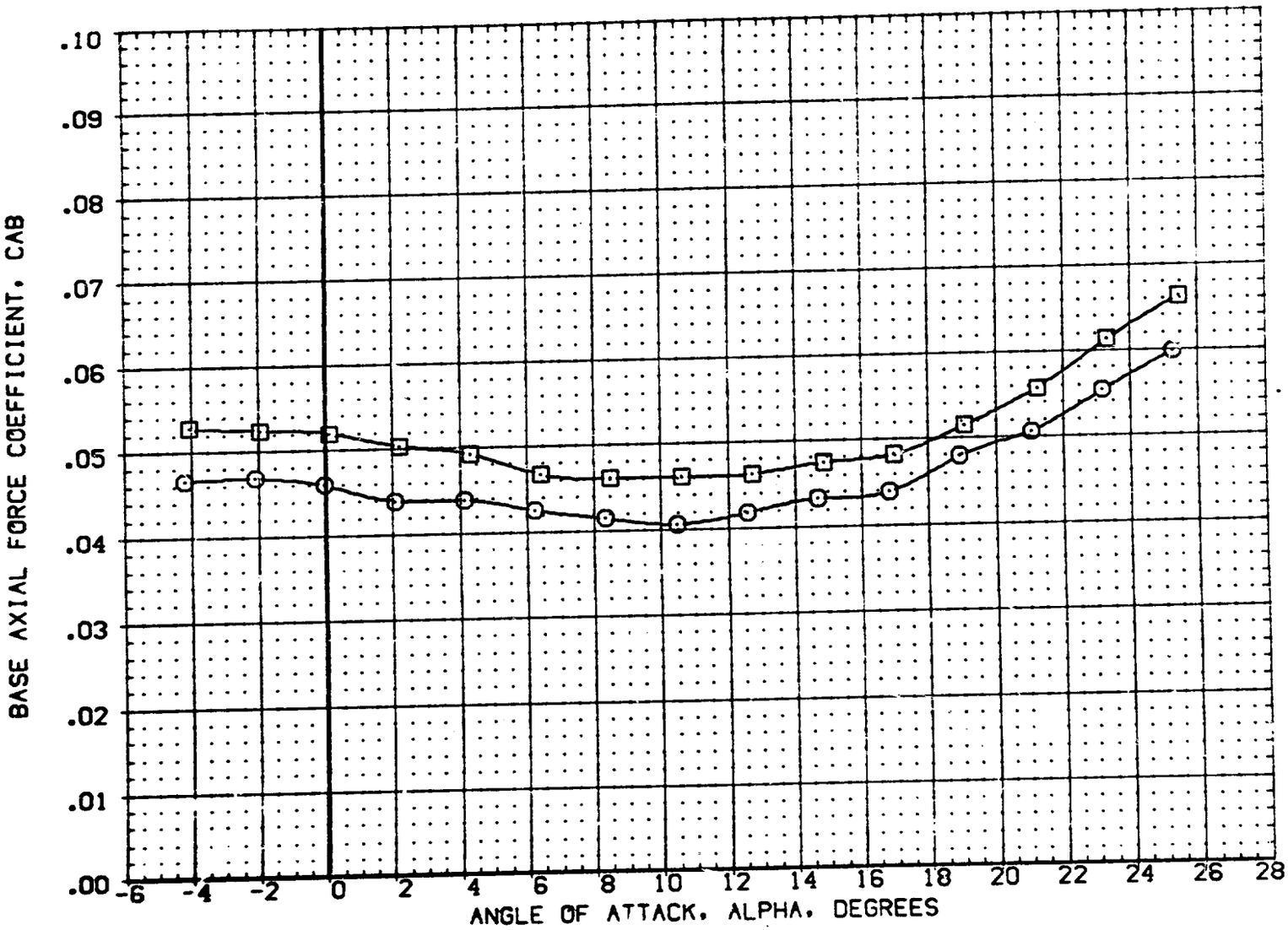


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A) MACH = .26

DATA SET SYMBOL - CONFIGURATION DESCRIPTION

(IDP119)	0A21	B17C7 H4M4F5	V107E23V7R6X9
(IDP138)	0A21	B17C7 H4M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

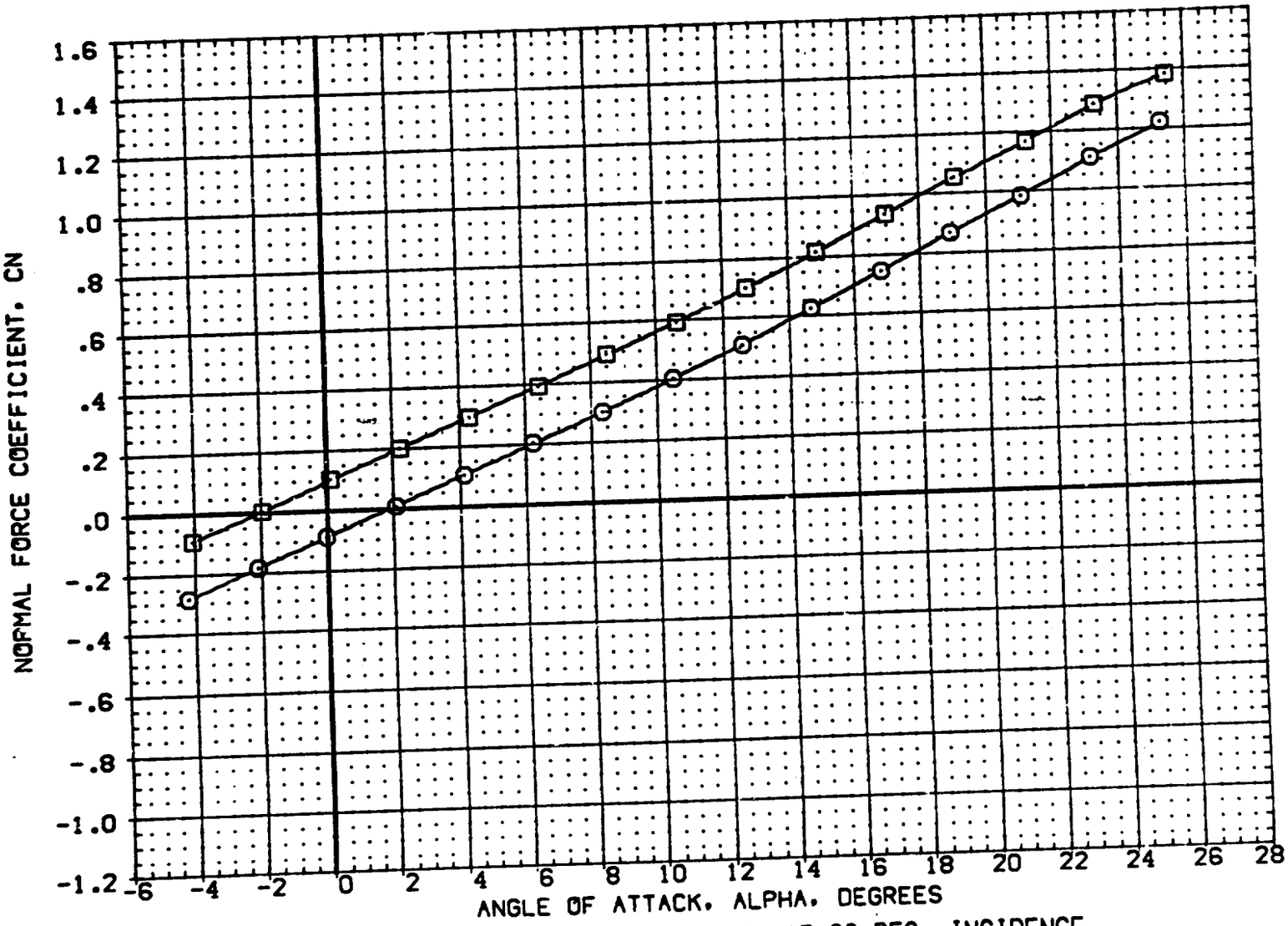


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(IDP119)	○	0A21	B17C7 H4M4F5 V107E23V7R6X9
(IDP138)	□	0A21	B17C7 H4M4F5 V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

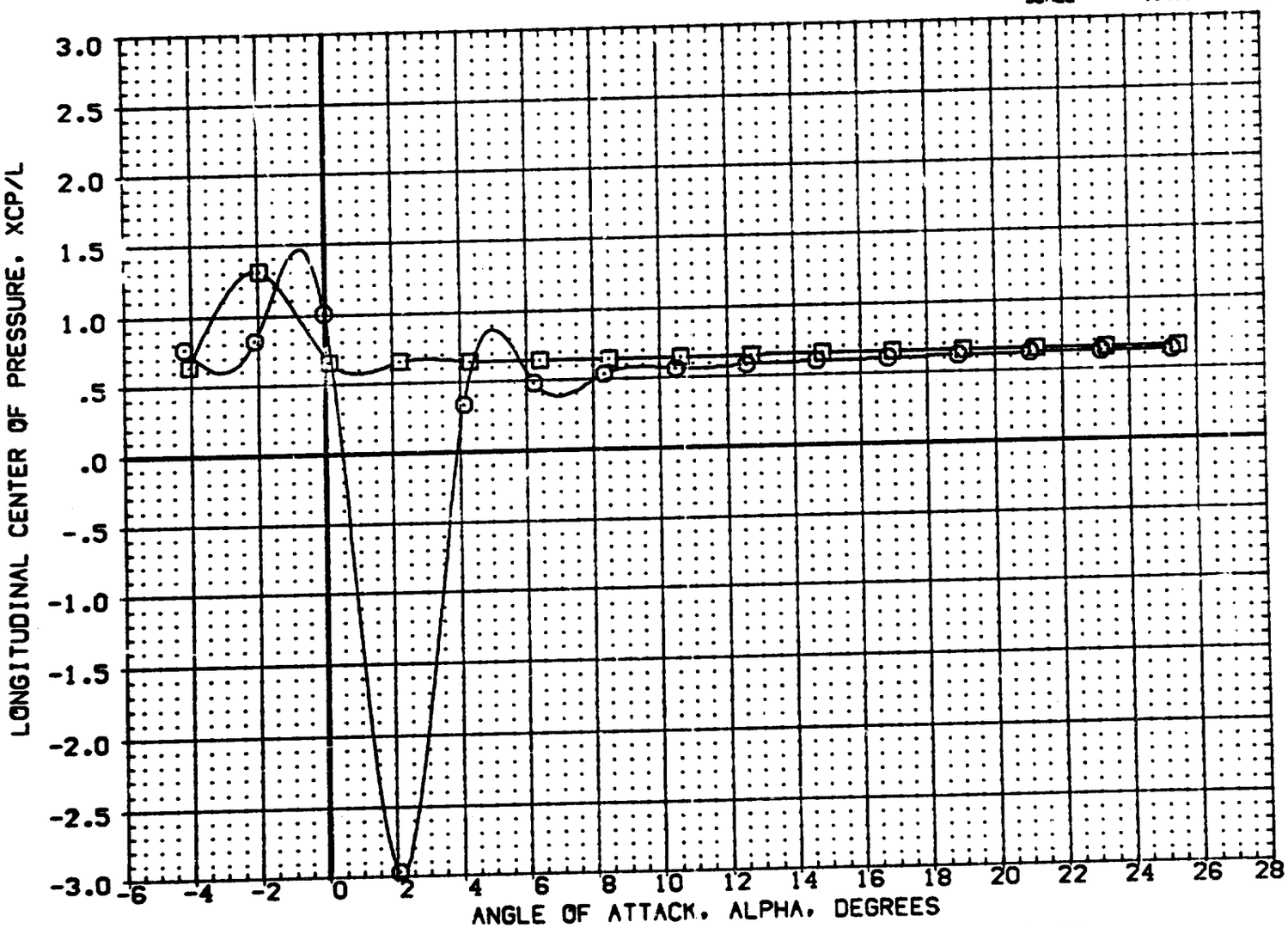


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BDFLAP	SPDBRK
(.DP119)	☐	0A21	B17C7 H4M4F5	V107E23V7R6X9		.000	.000	-18.000	55.000
(.DP138)	☐	0A21	B17C7 H4M4F5	V107E23V7R6X9		10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

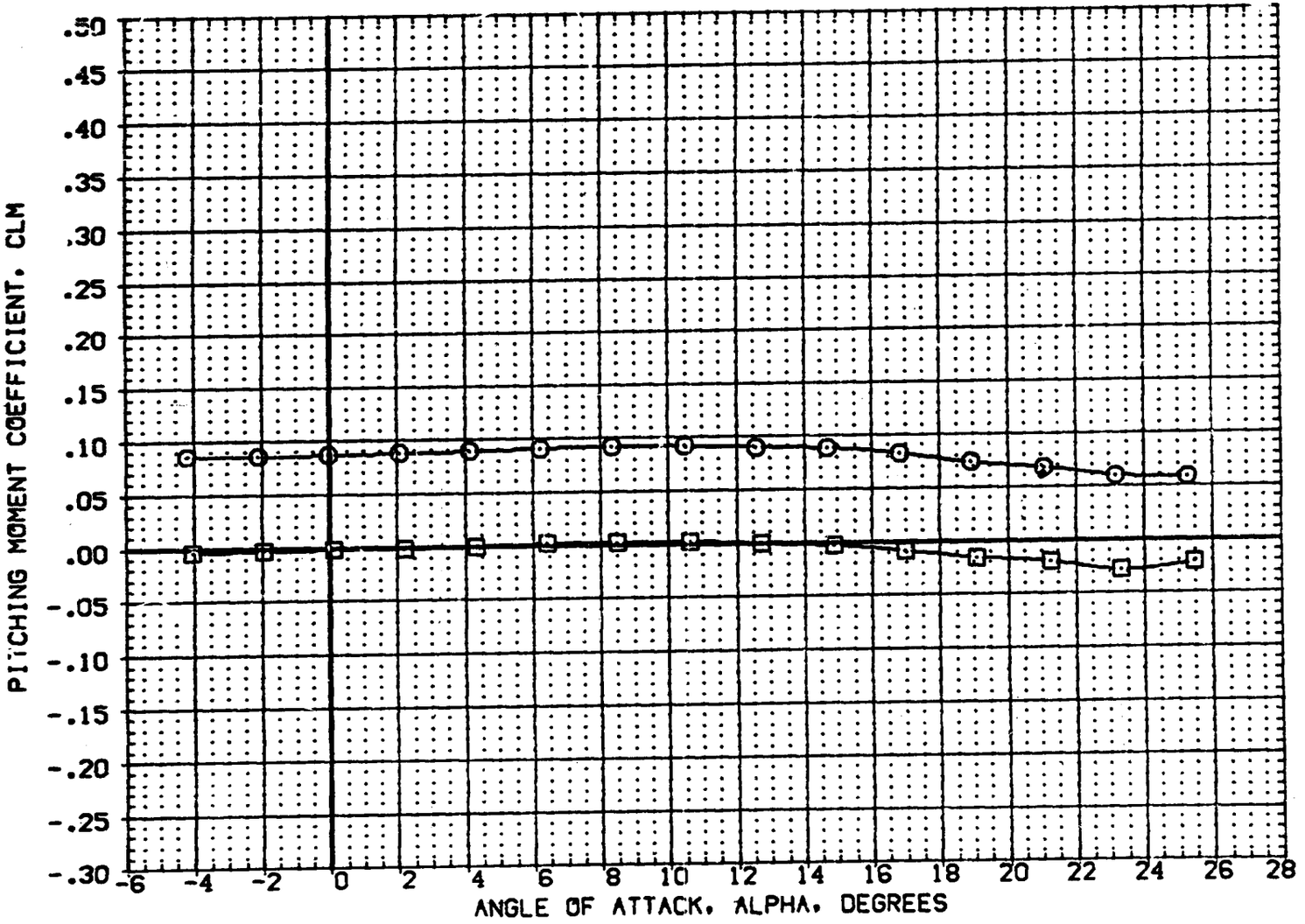


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP138) ○ 0A21 B17C7 H4M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

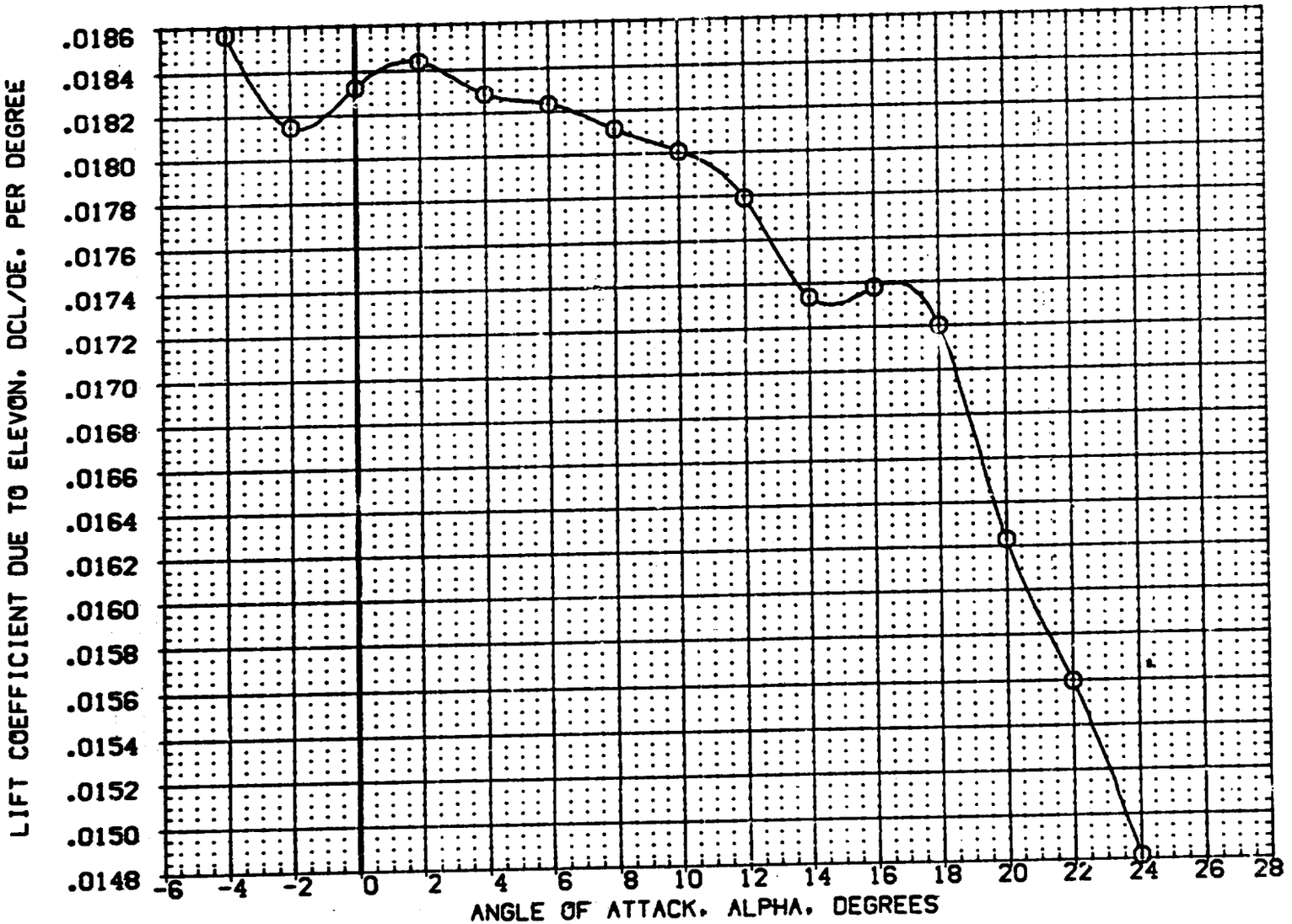


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BOFLAP	SPOBRK
(OOP138) O	0A21 B17C7 H4M4F5 V107E23V7R6X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

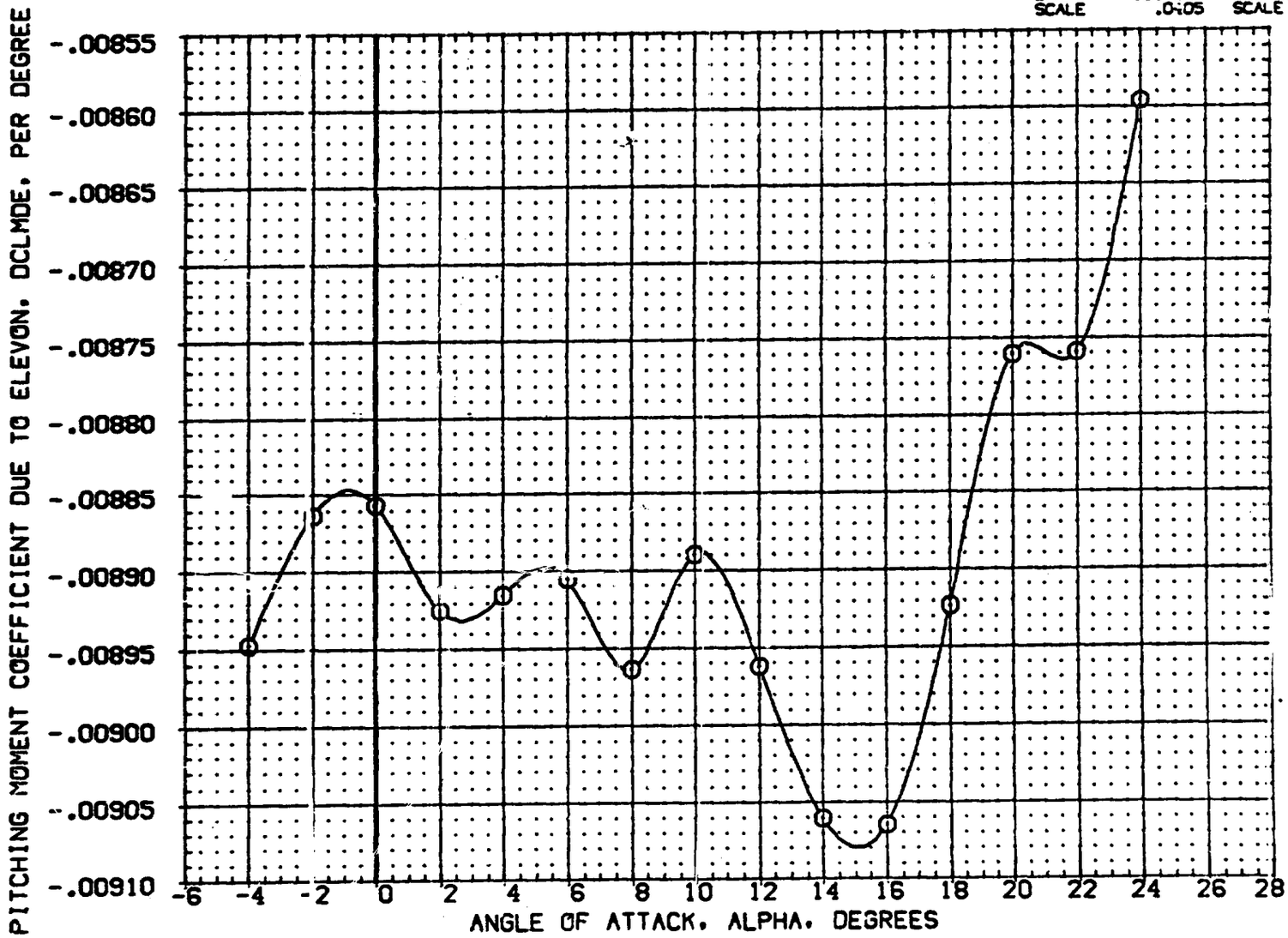


FIGURE 16 ELEVON EFFECTIVENESS WITH H4 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(IDP122)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(IDP139)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

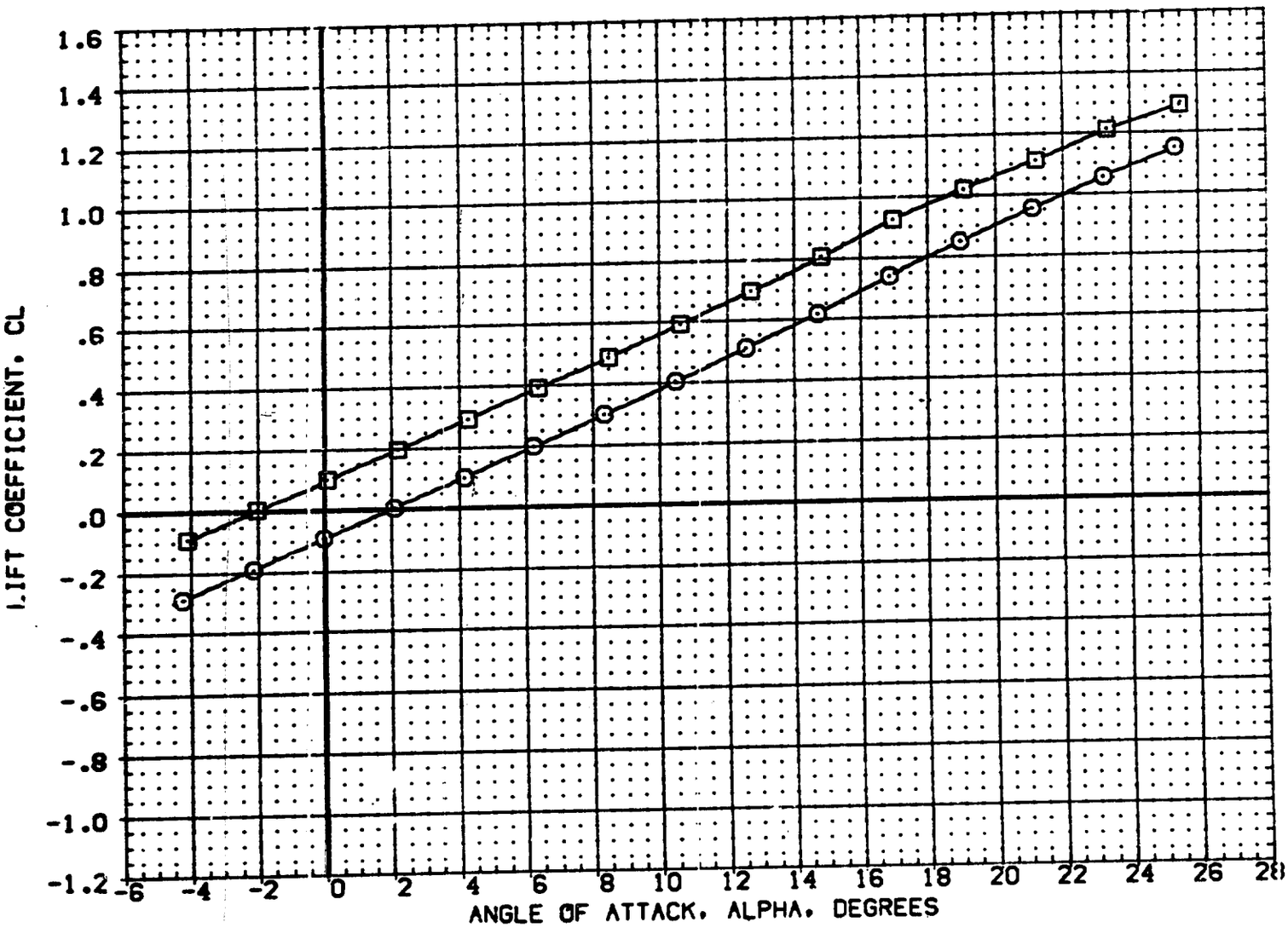


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP122)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9
(IDP139)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

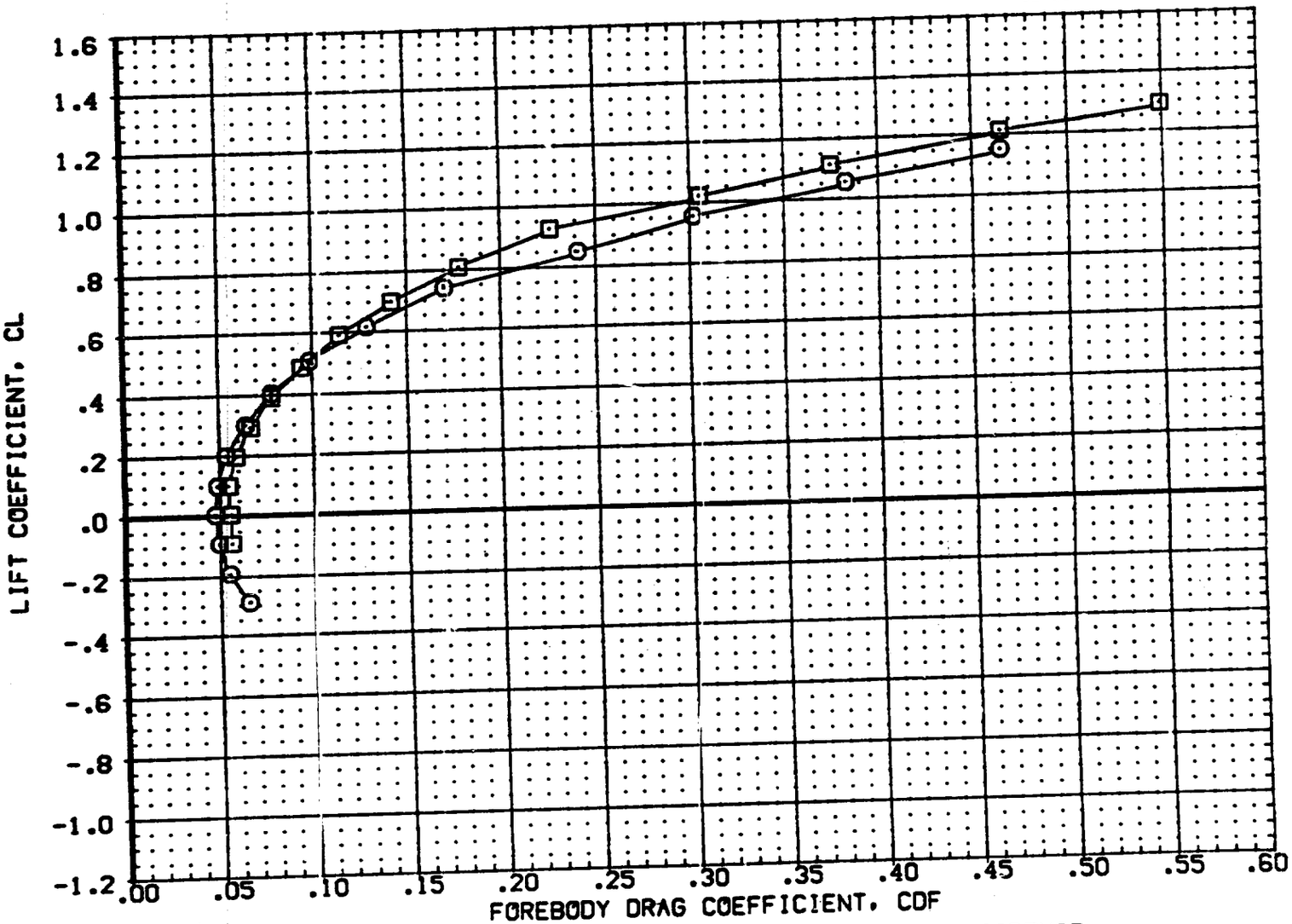


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(IDP122)	○	0A21	B17C7 H5M4F5	V107E23V7R8X9	.000	.000	-18.000	55.000
(IDP139)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

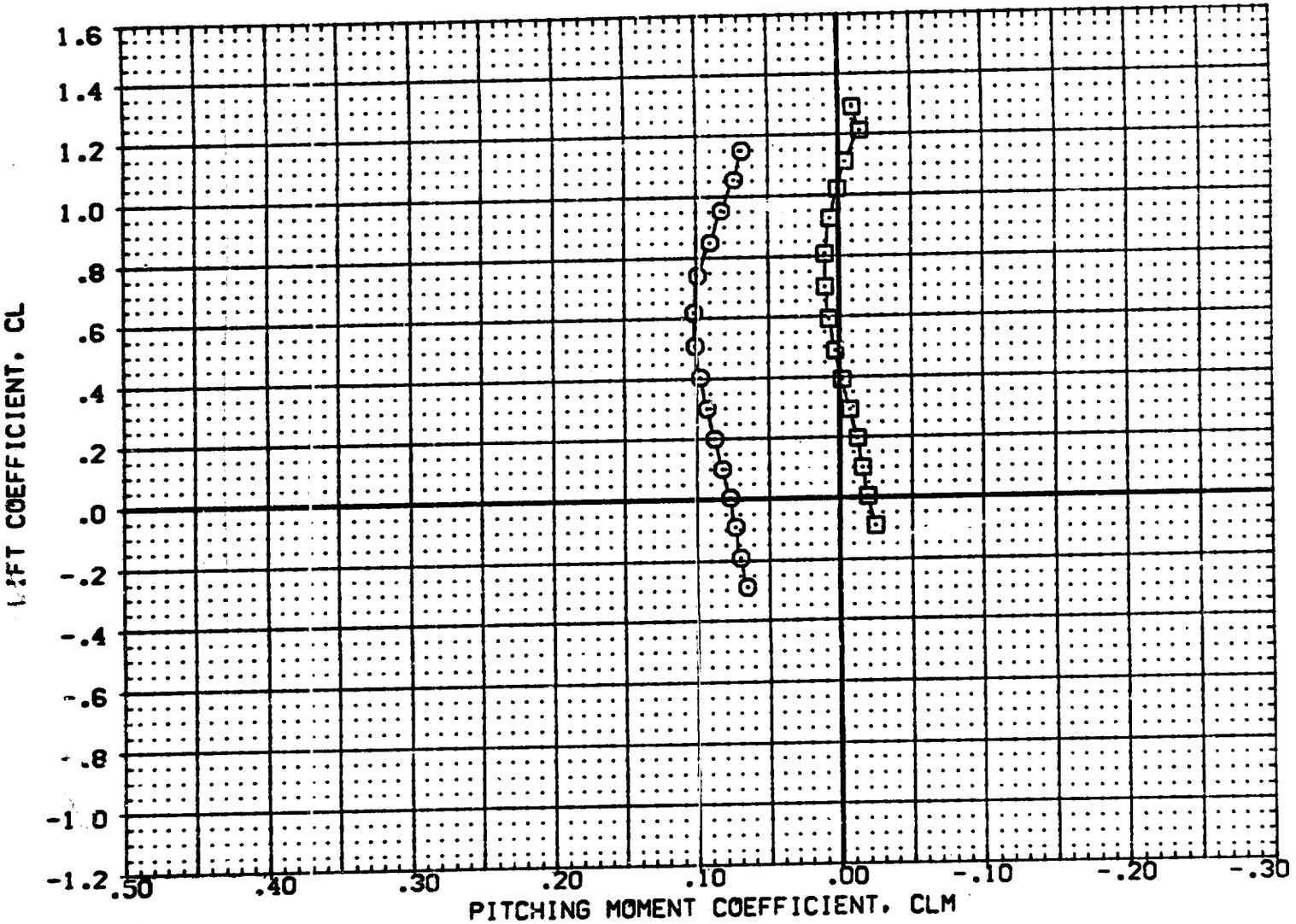


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP122)	○	0A21	B17C7 -5M4F5	W107E23V7R6X9	
(IDP139)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

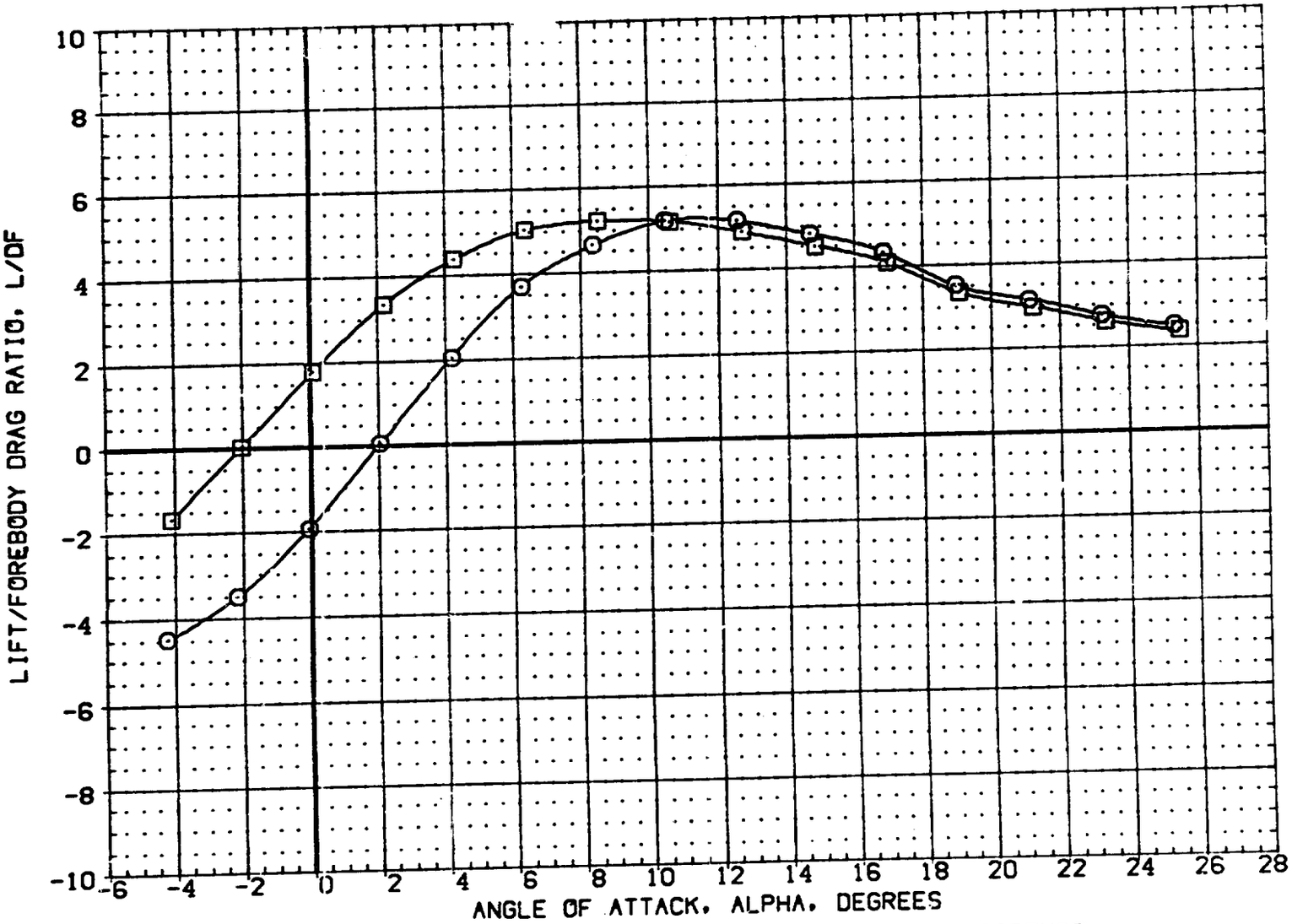


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[1DP122]	0A21	B17C7 H3M4F5	V107E23V7R6X9	
[1DP139]	0A21	B17C7 H5M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

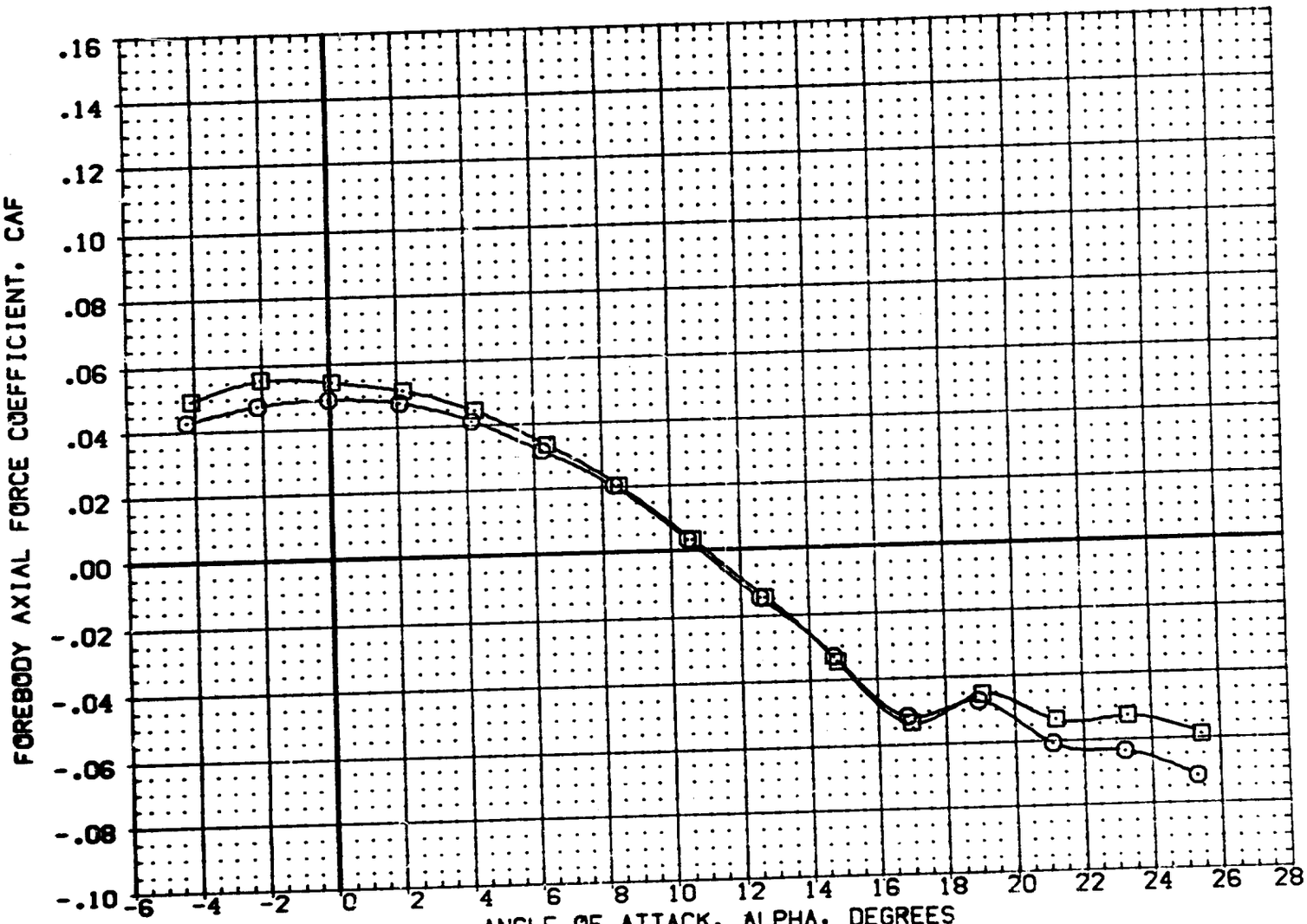


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

[A]MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP122)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9
(IDP139)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

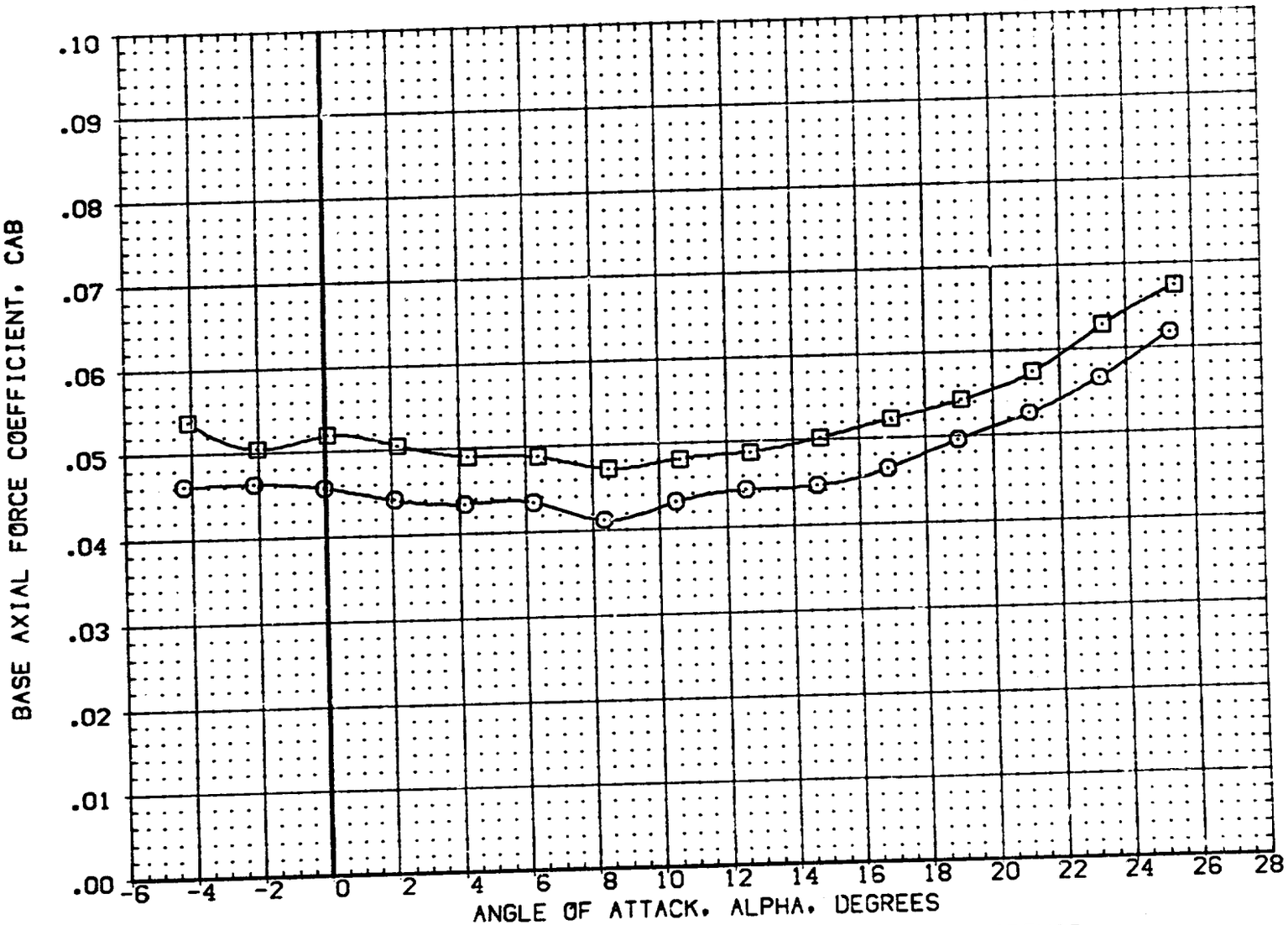


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP122)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9
(IDP139)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

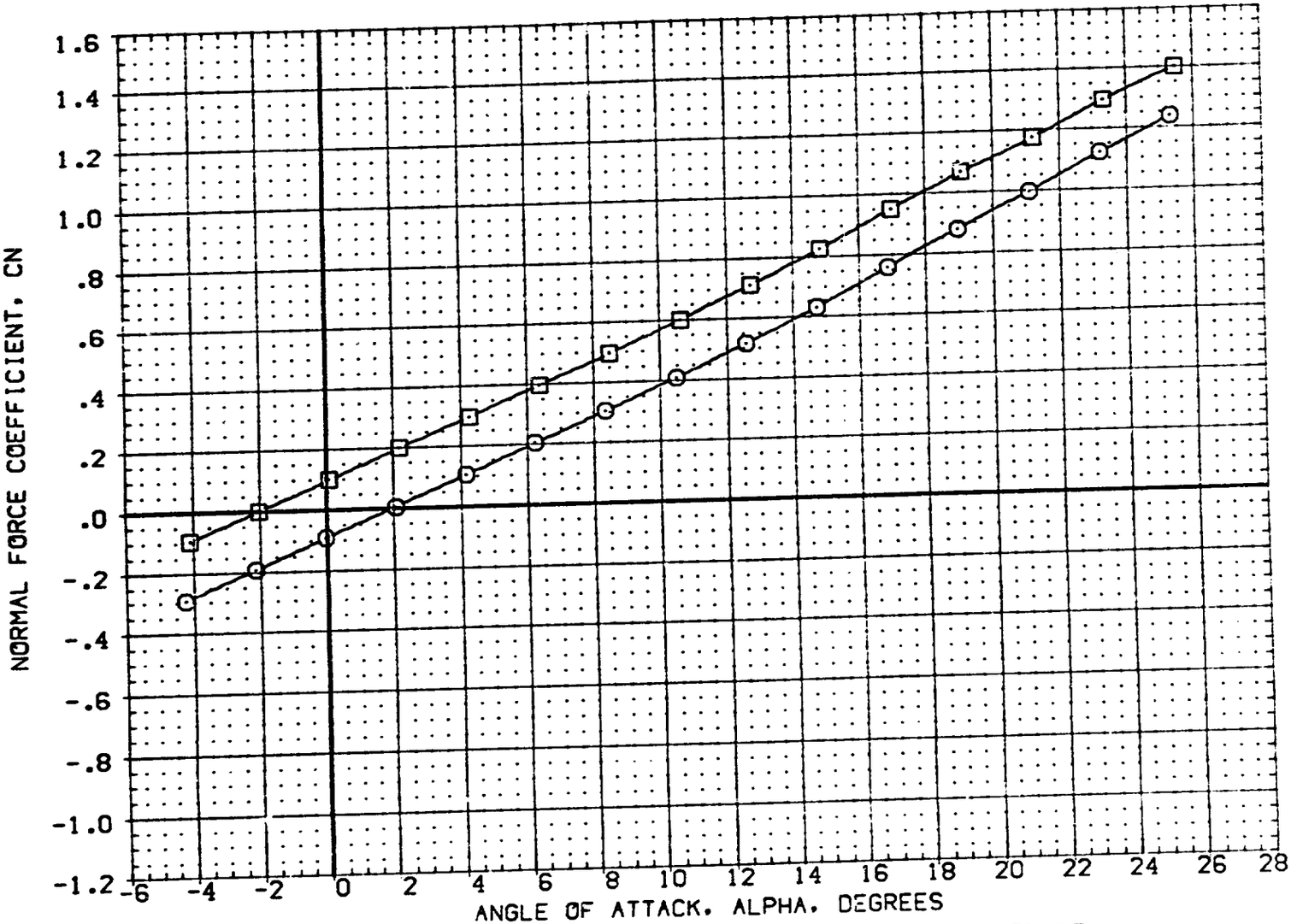


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

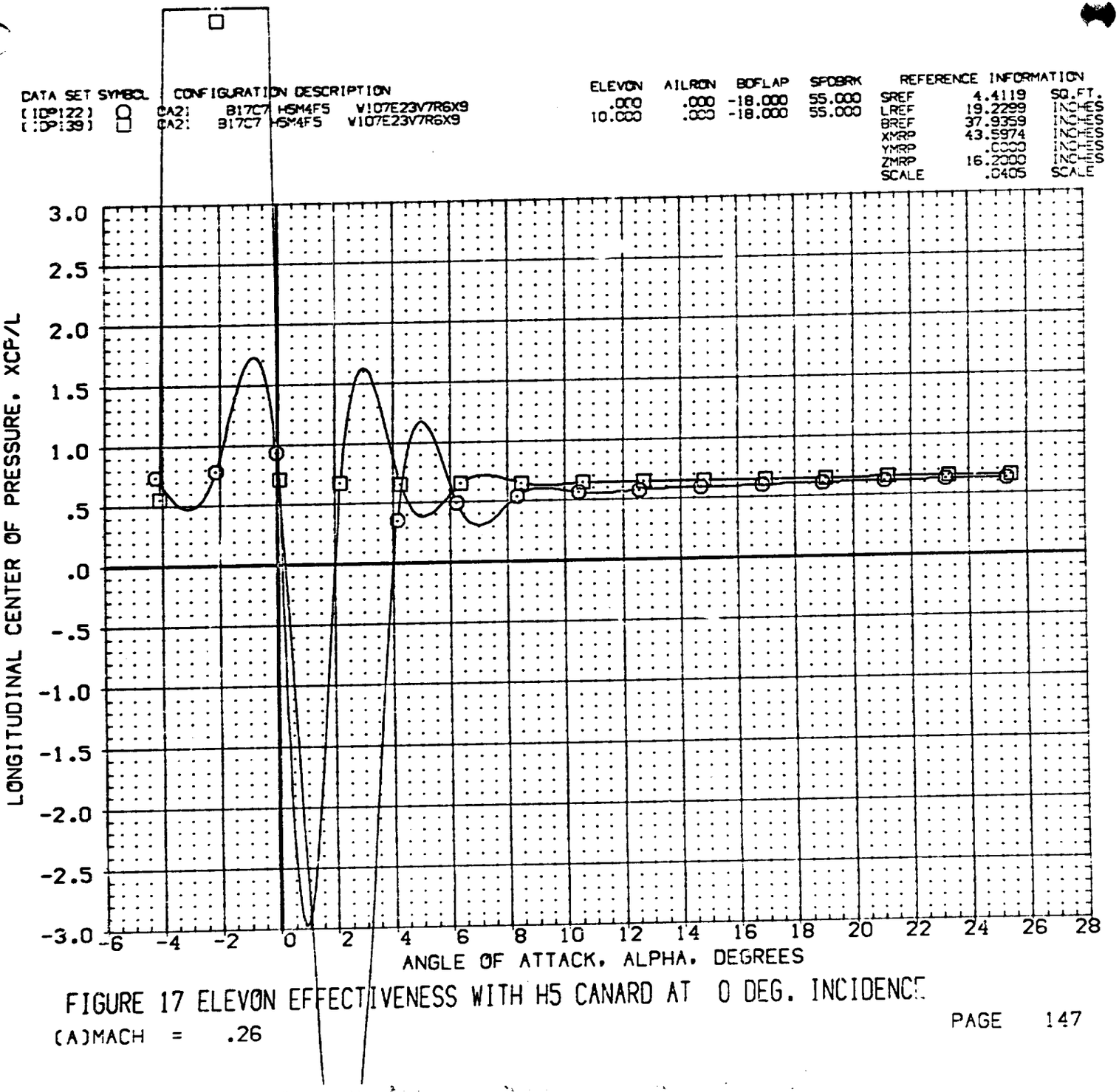


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP122)	○	0A21	B17C7 HSM4F5	W107E23V7R6X9
(IDP139)	□	0A21	B17C7 HSM4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

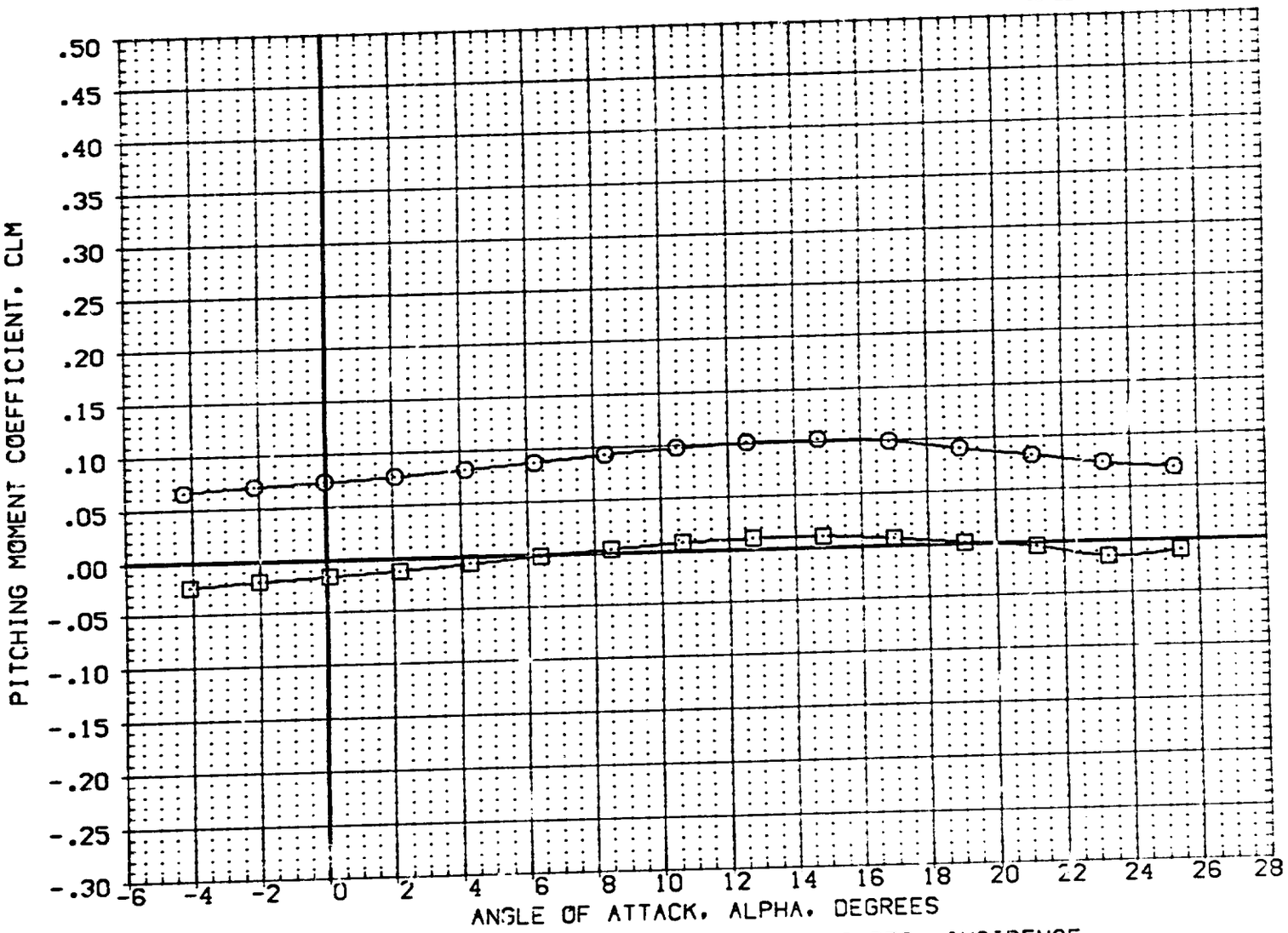


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(00P139) ○ 9A21 B17C7 H5M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

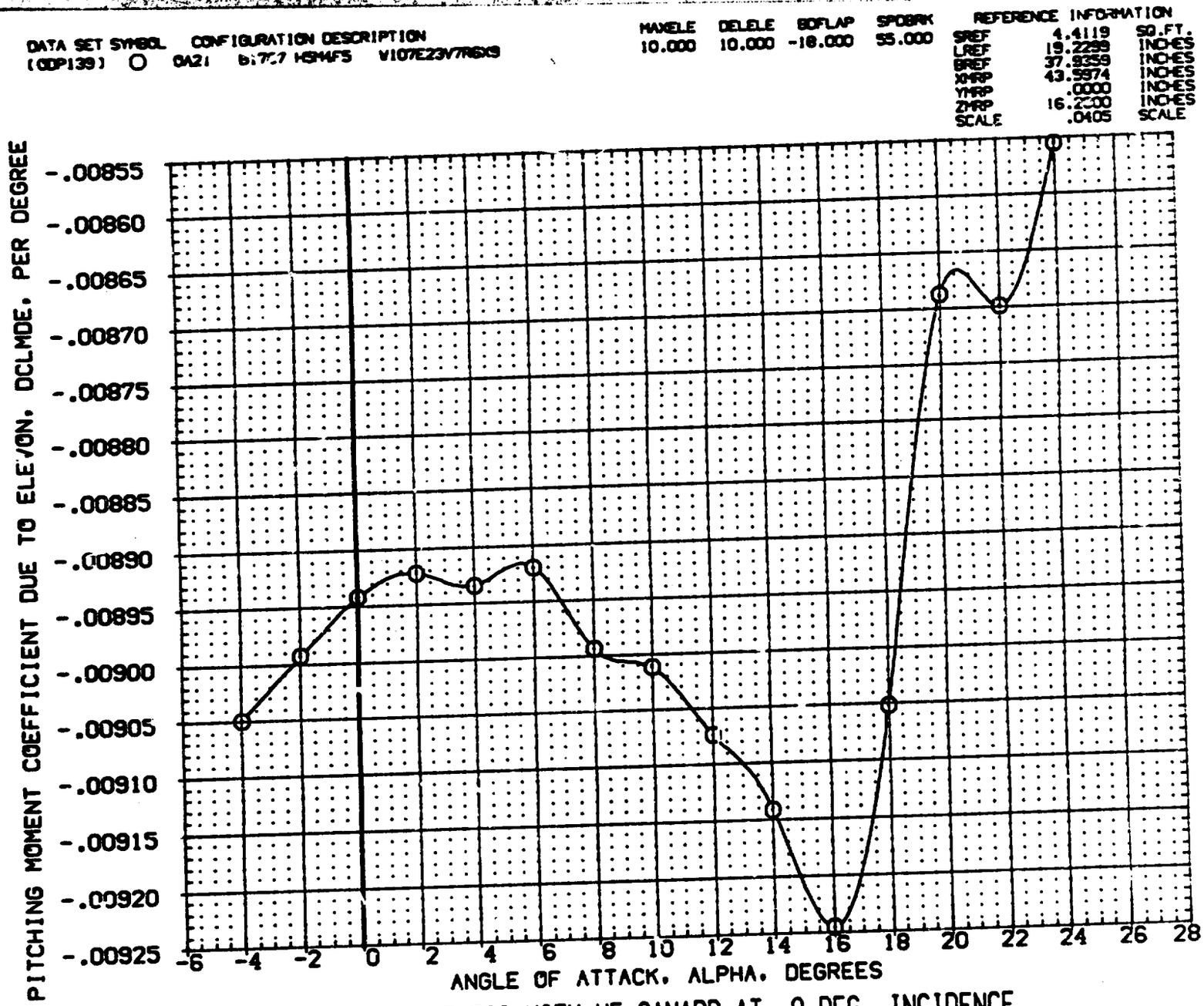


FIGURE 17 ELEVON EFFECTIVENESS WITH H5 CANARD AT 0 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP123)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(IDP140)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

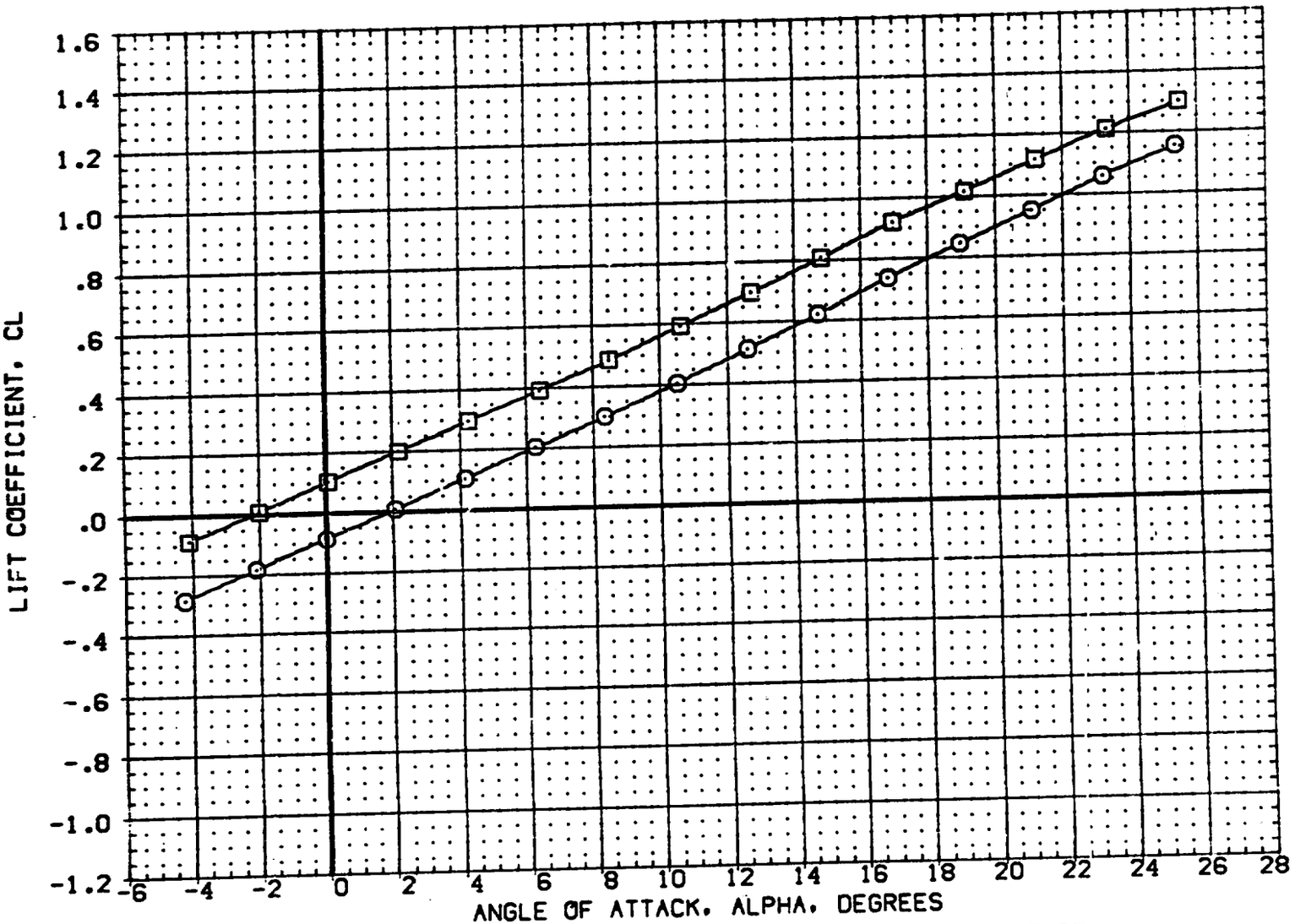


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP123)	○	0A21	B17C7 HSM4FS	W107E23V7R6X9	
(IDP140)	□	0A21	B17C7 HSM4FS	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

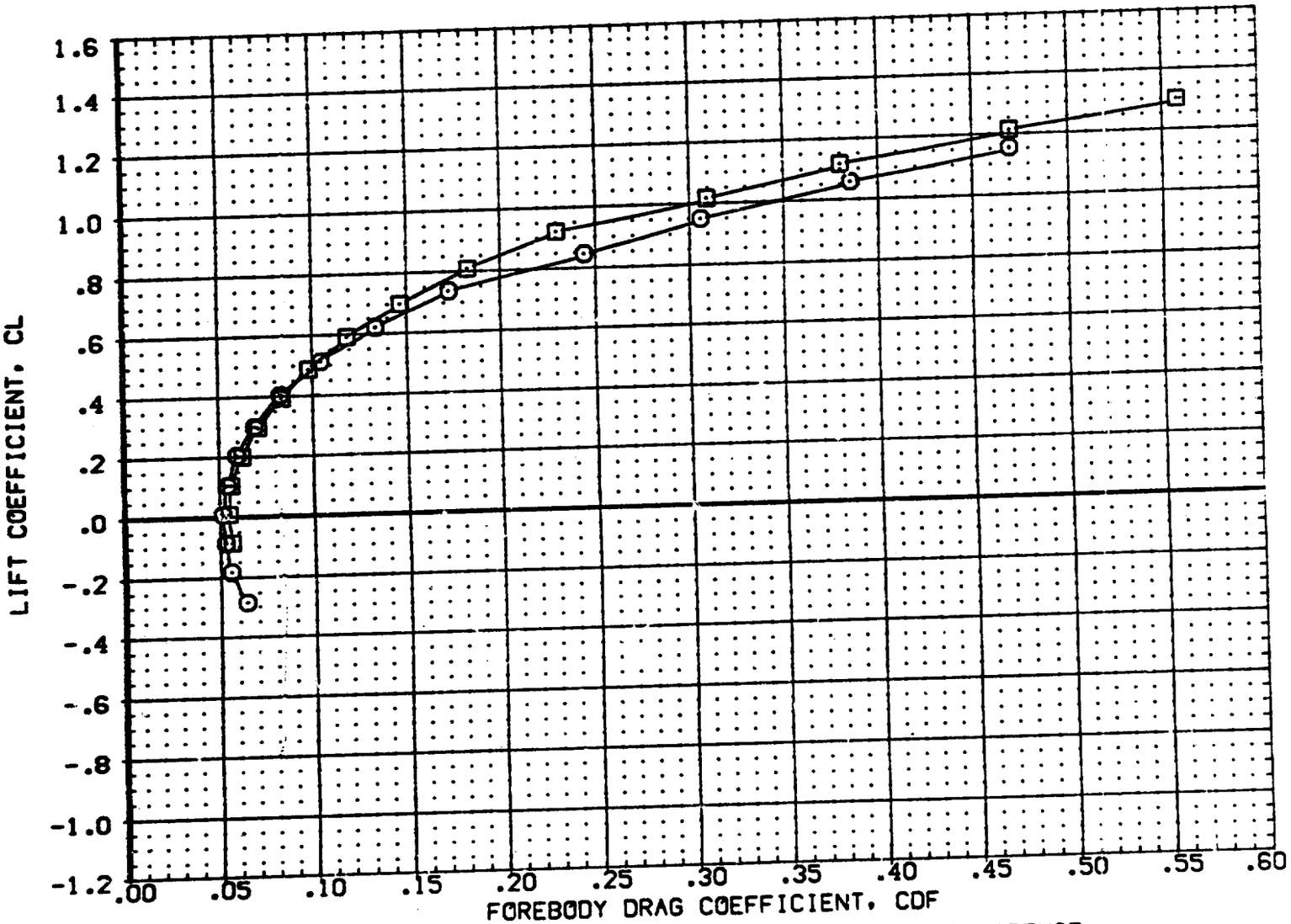


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP123)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9
(IDP140)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

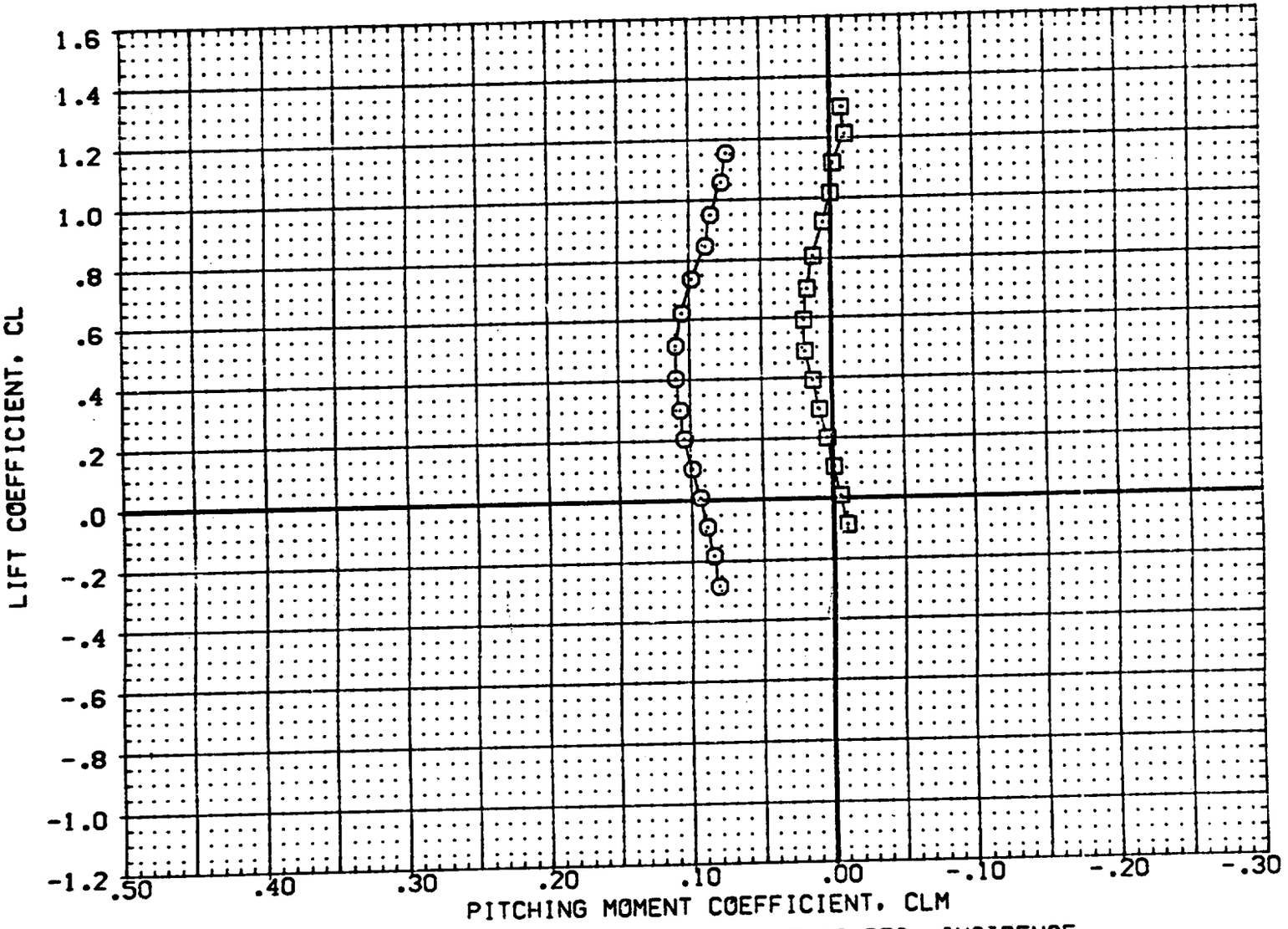


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(IDP123)	○	0A21	B17C7 HSM4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP140)	□	0A21	B17C7 HSM4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2003	INCHES
SCALE	.0405	SCALE

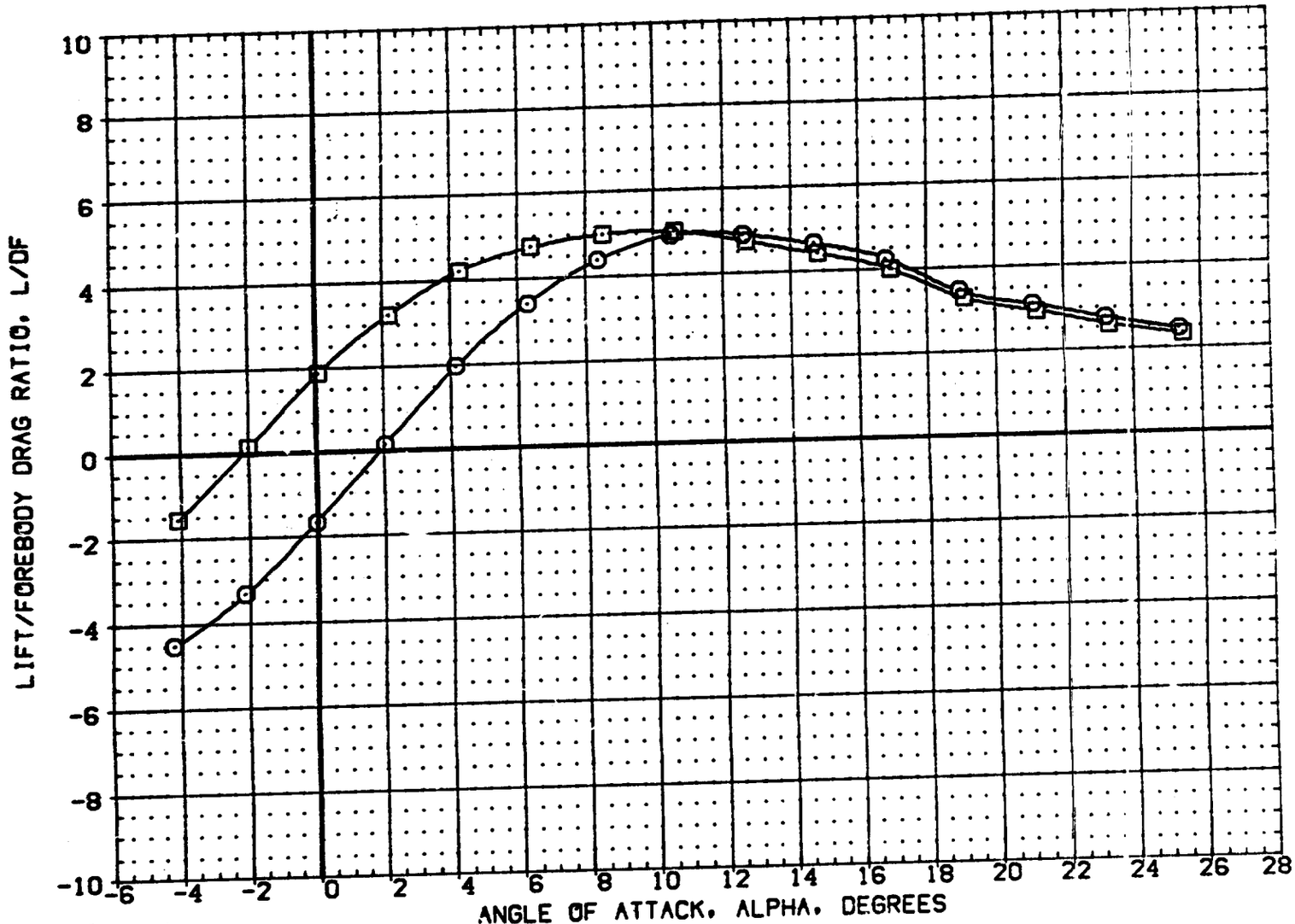


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPDBRK
[IDP123]	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
[IDP140]	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

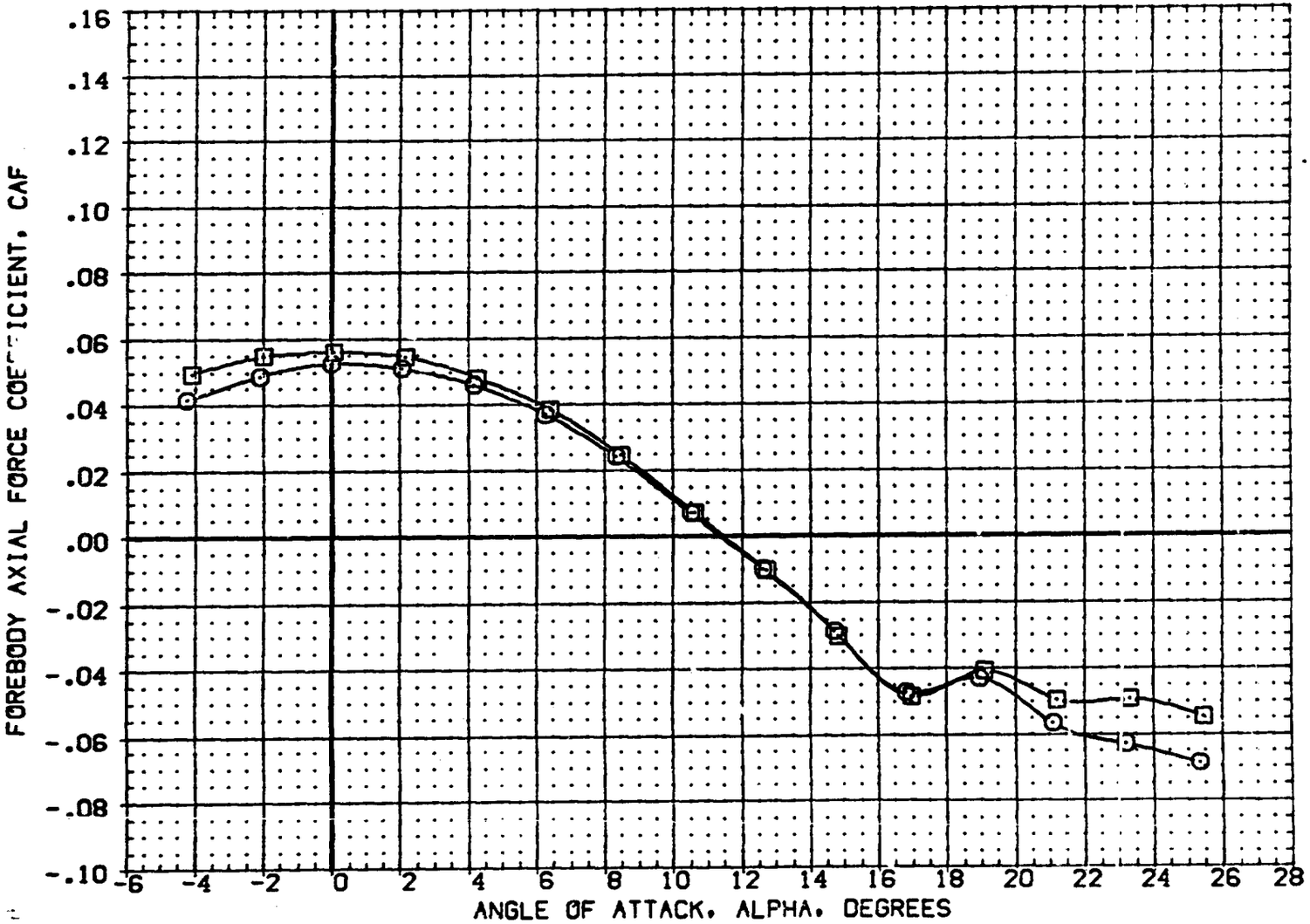


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[ ]DP123[ ]	☐	0A21	B17C7 H5M4F5	V107E23V7R6X9
[ ]DP140[ ]	⊟	0A21	B17C7 H5M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

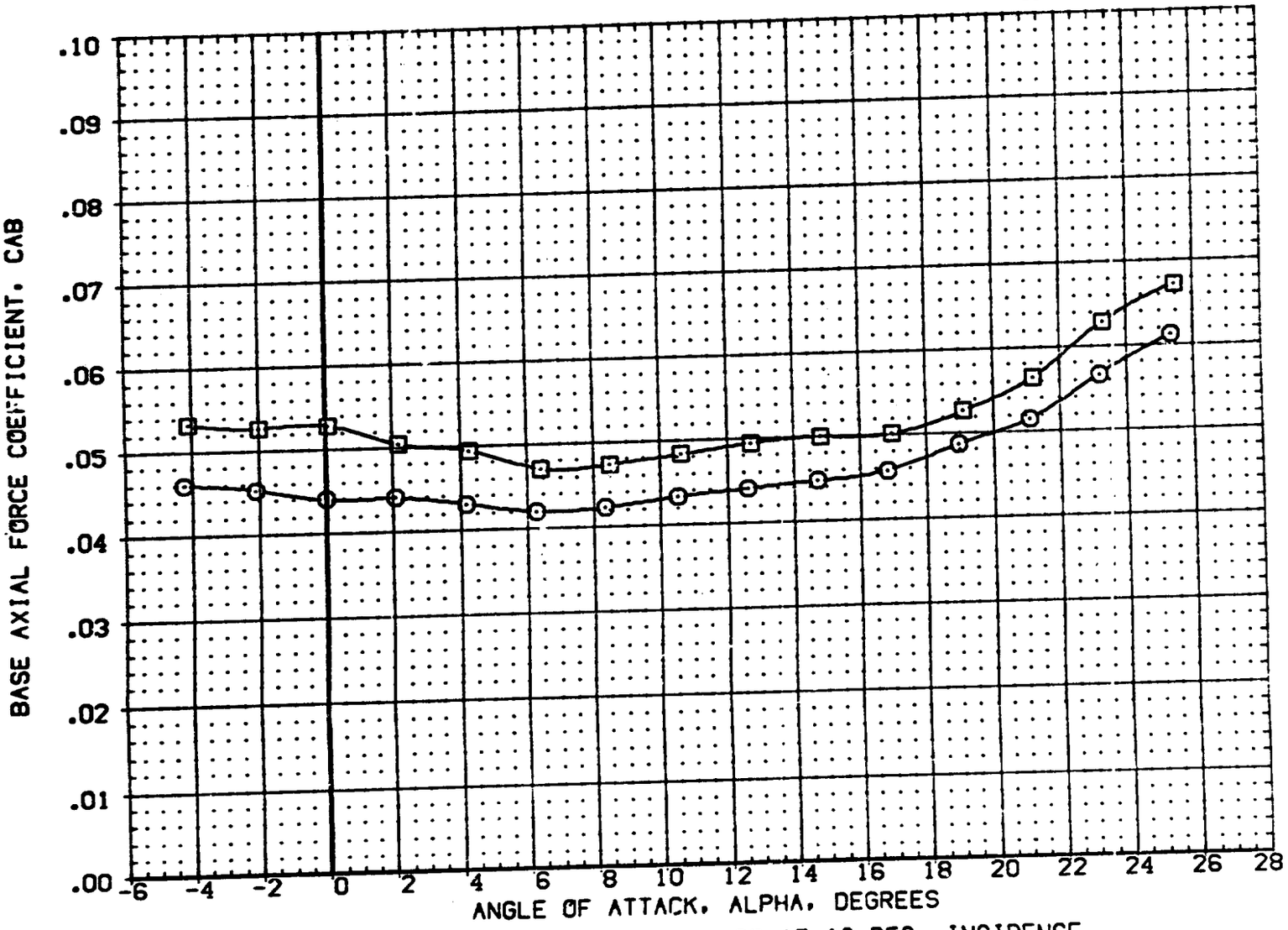


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

[A]MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP123)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP140)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

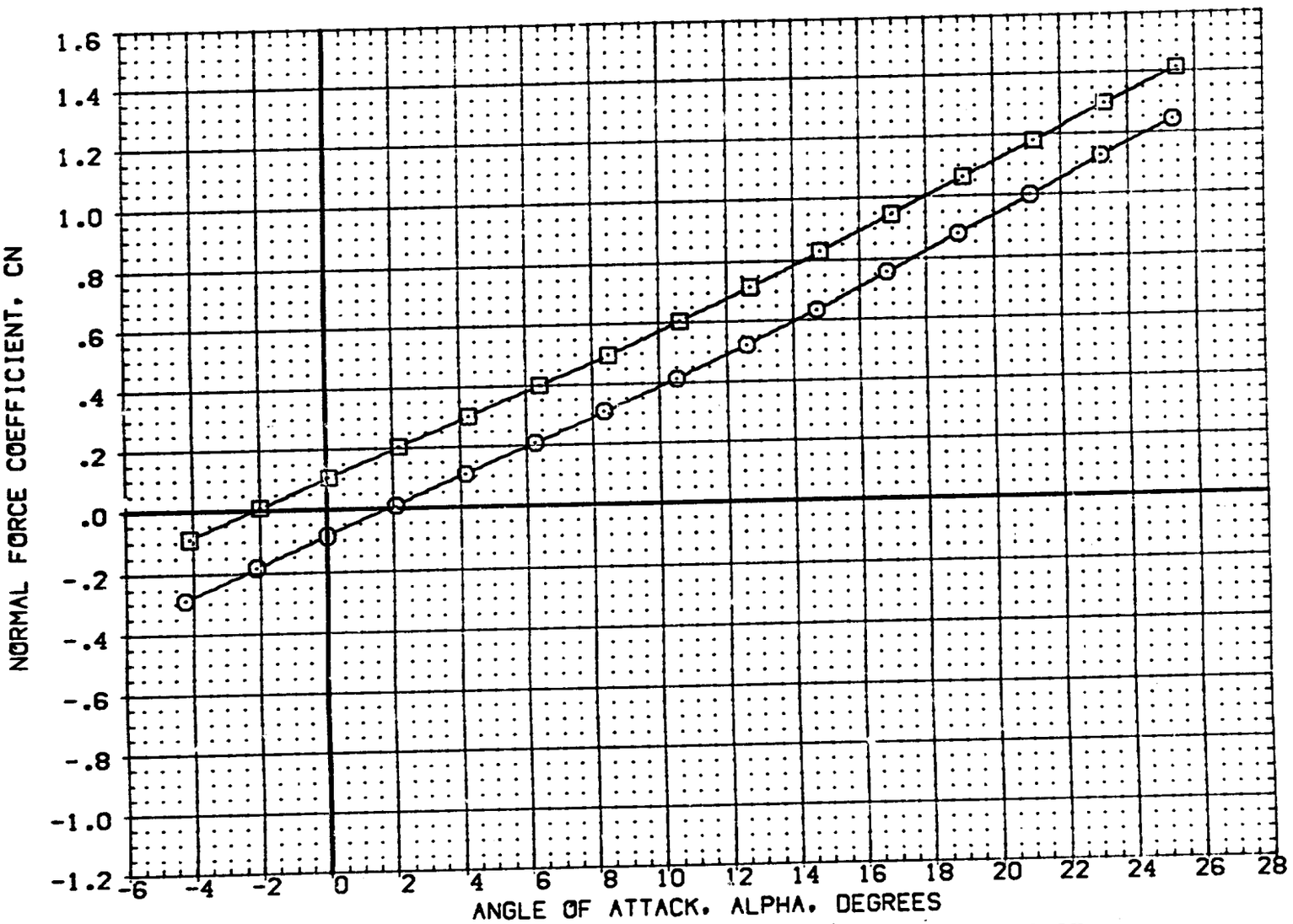


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP123)	0A21	B17C7 H5M4F5	V107E?3V7R6X9	
(IDP140)	0A21	B17C7 H5M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

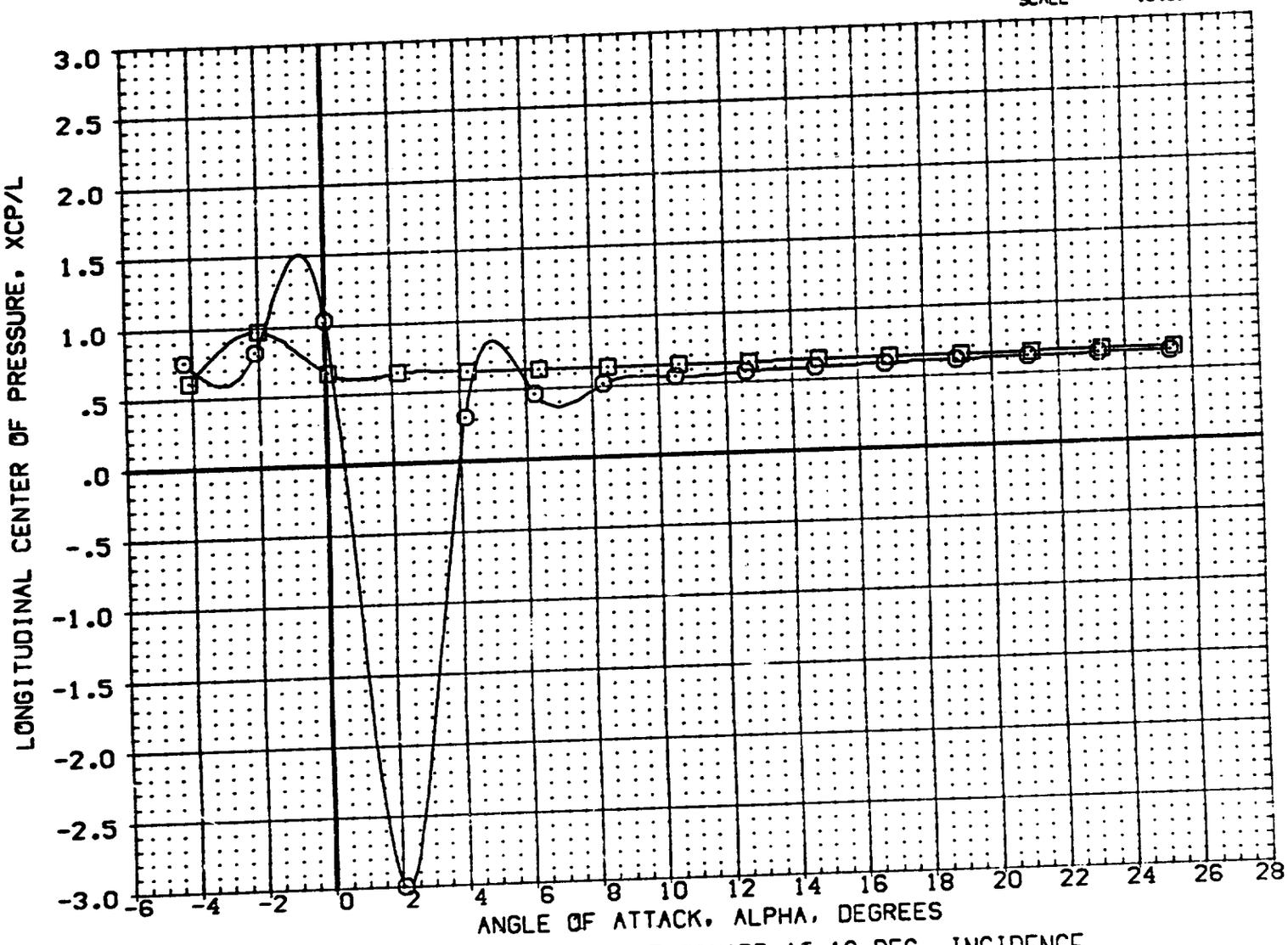


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPOBRK
(IDP123)	○	CA21 B17C7 H5M4F5 V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP140)	□	CA21 B17C7 H5M4F5 V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

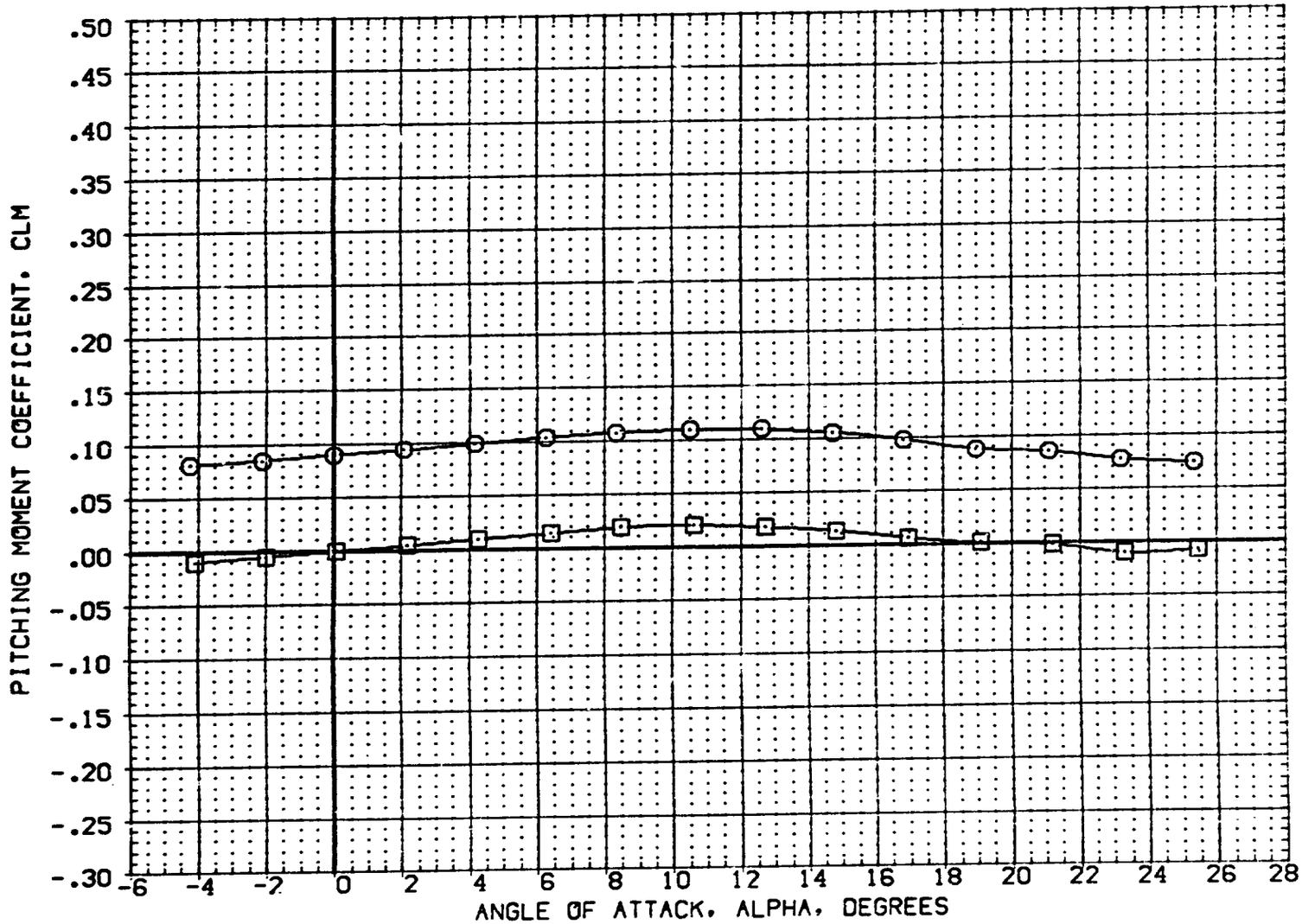


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CDP140) ○ DA21 B17C7 H5M4F5 V107E73V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2259	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(00P140) C CA2: B17C7 H5 4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

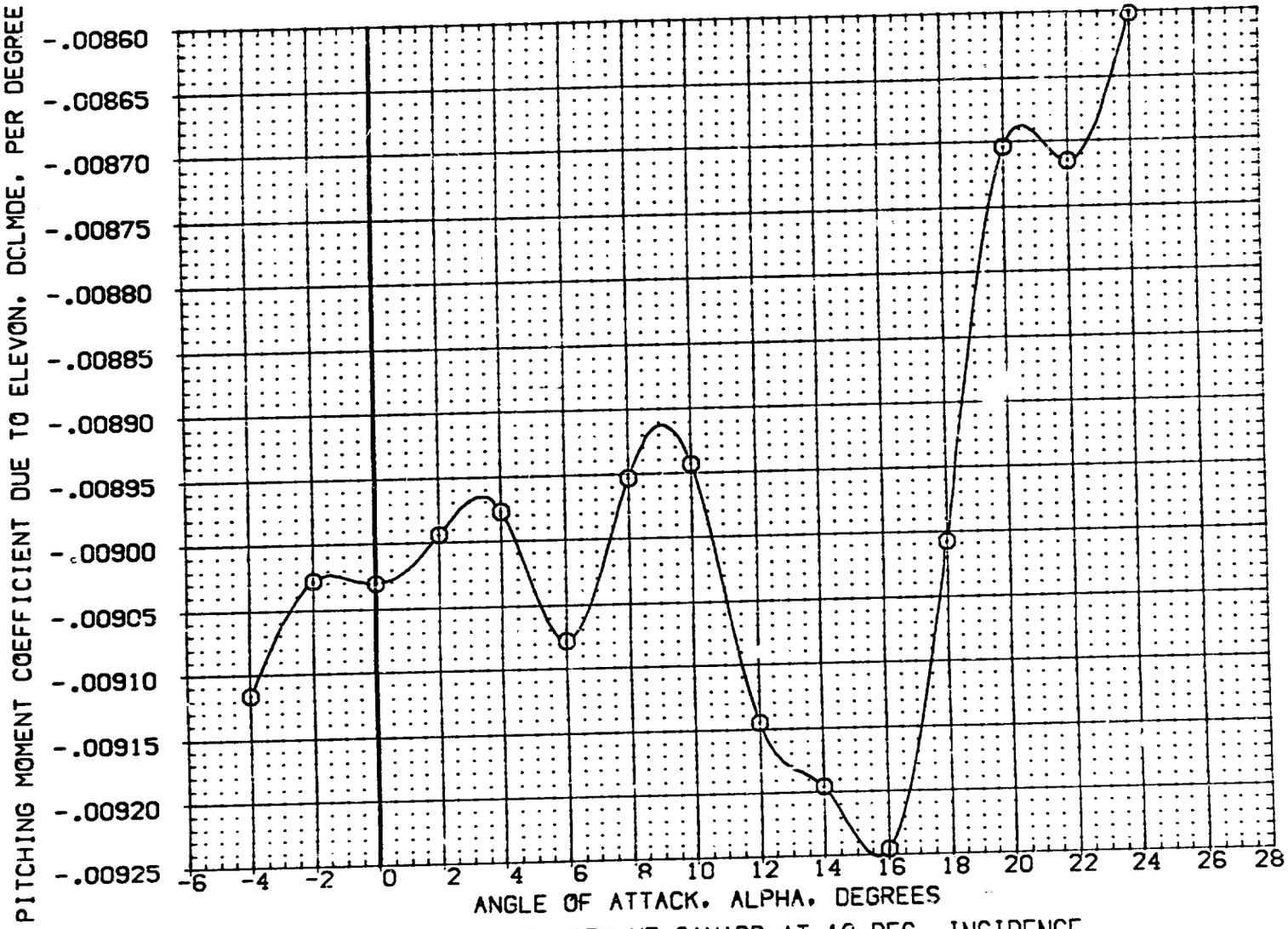


FIGURE 18 ELEVON EFFECTIVENESS WITH H5 CANARD AT 10 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(IDP124)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP141)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

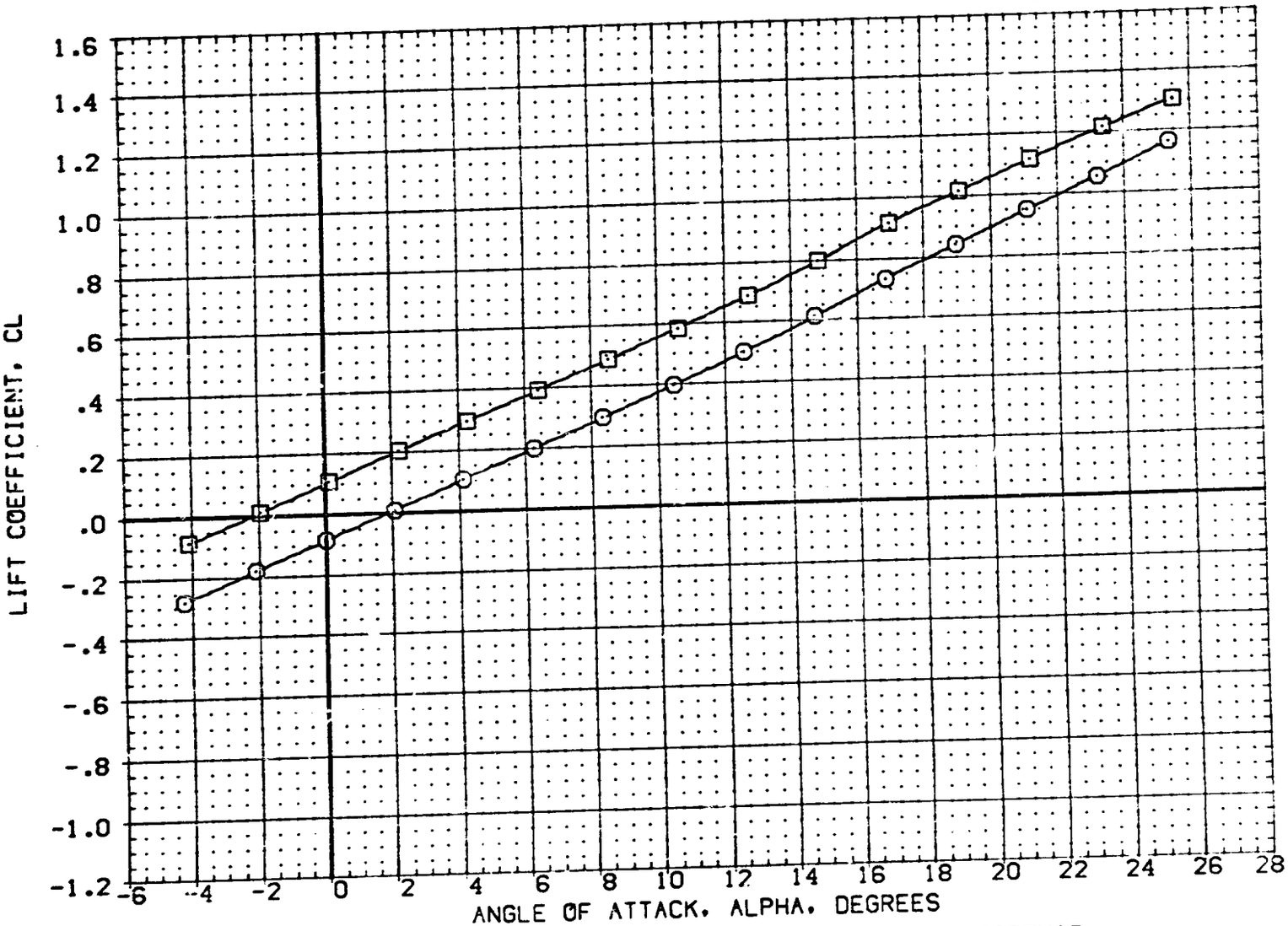


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(1DP124) ○	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(1DP141) □	0A21	B17C7 H5M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

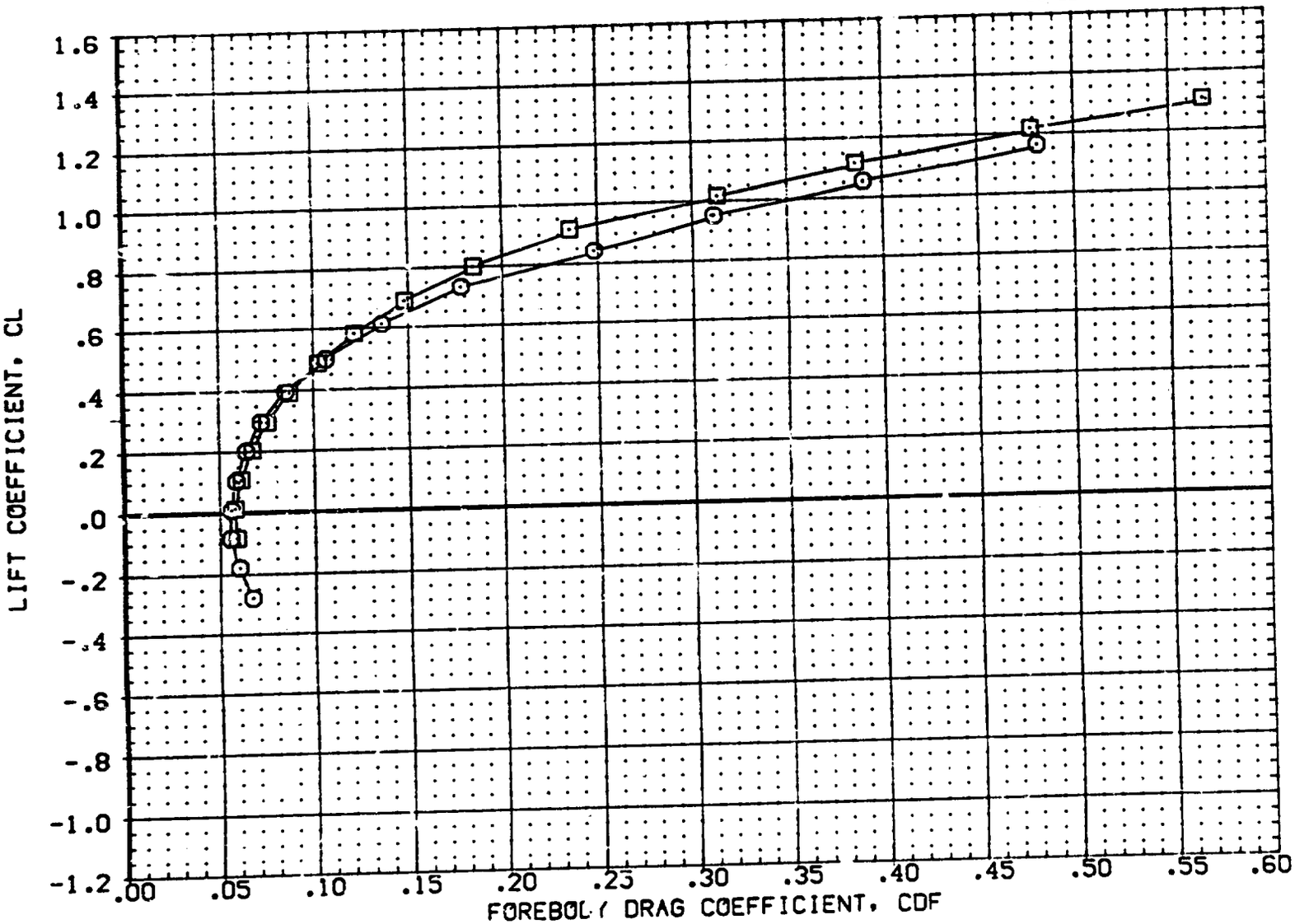


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP124)	0A21	B17C7	/SM4F5	W107E23V7R6X9
(IDP141)	0A21	B17C7	/SM4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

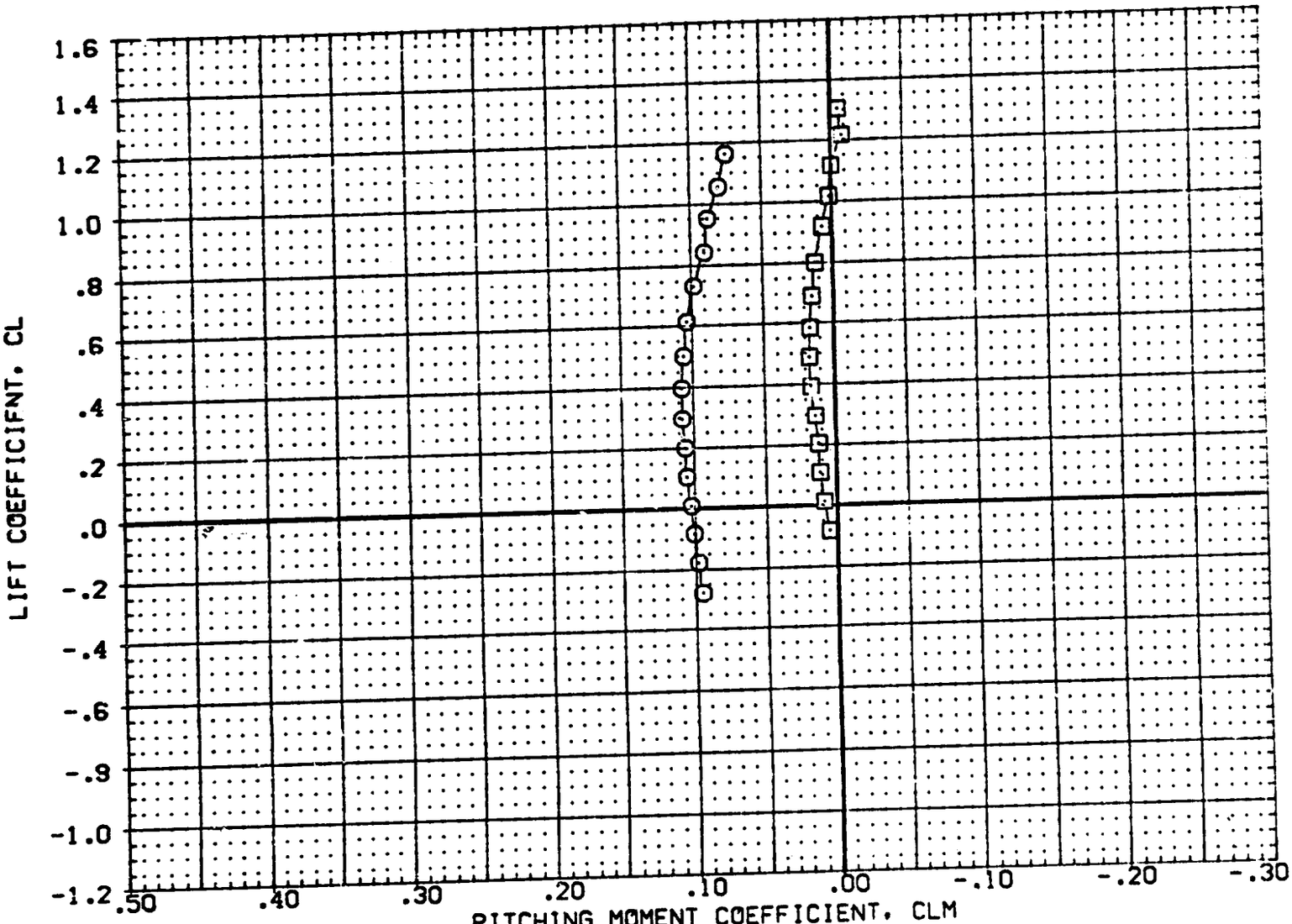


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPDBRK
[IDP124]	○	CA21	B17C7 H5M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
[IDP141]	□	CA21	B17C7 H5M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

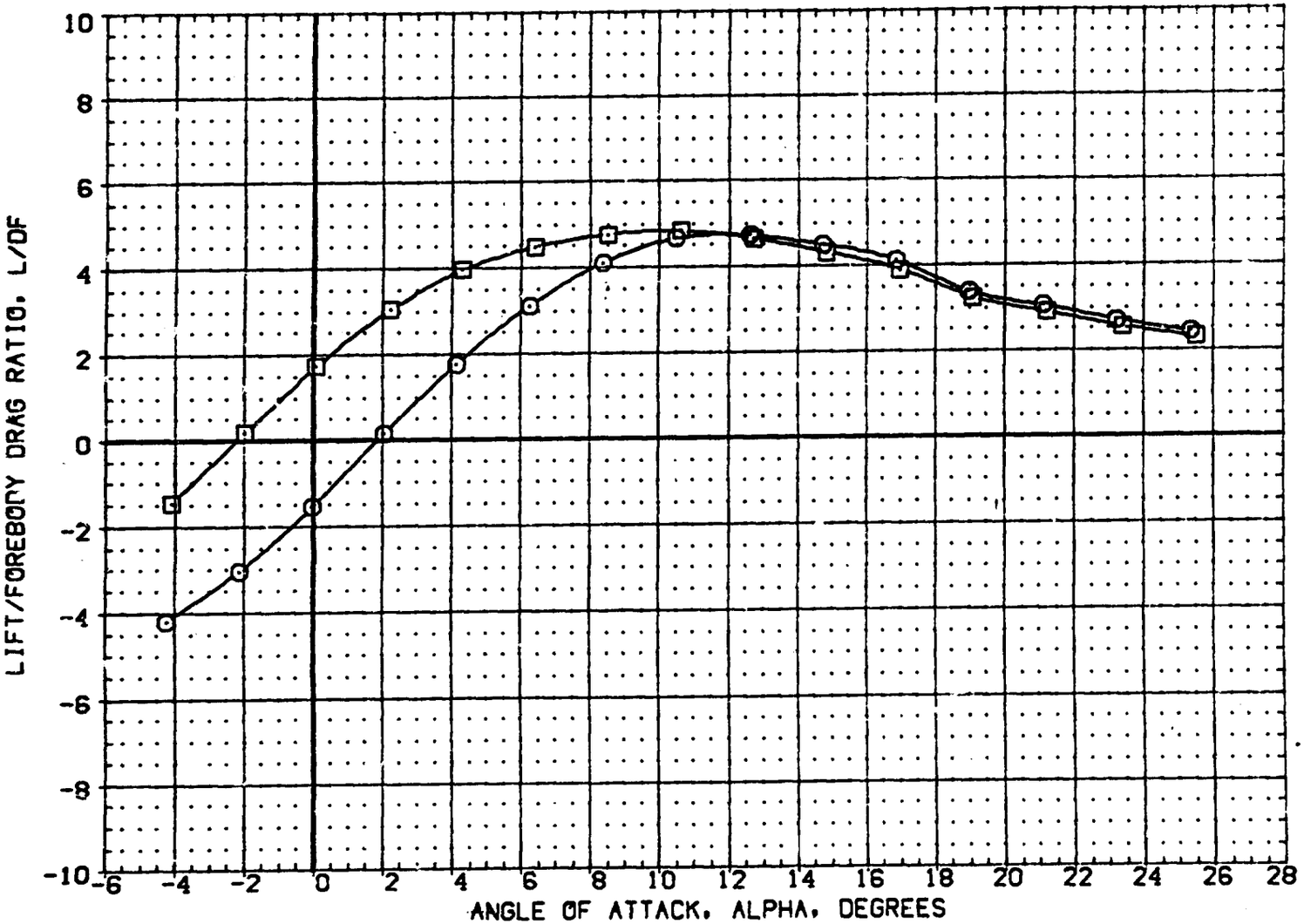


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
[IDP124]		0A21	B17C7 H5M4F5	V107E23V7R6X9	.000	.000	-10.000	55.000
[IDP141]		0A21	B17C7 H5M4F5	V107E23V7R6X9	10.000	.000	-10.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9339	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(1DP124)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(1DP141)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

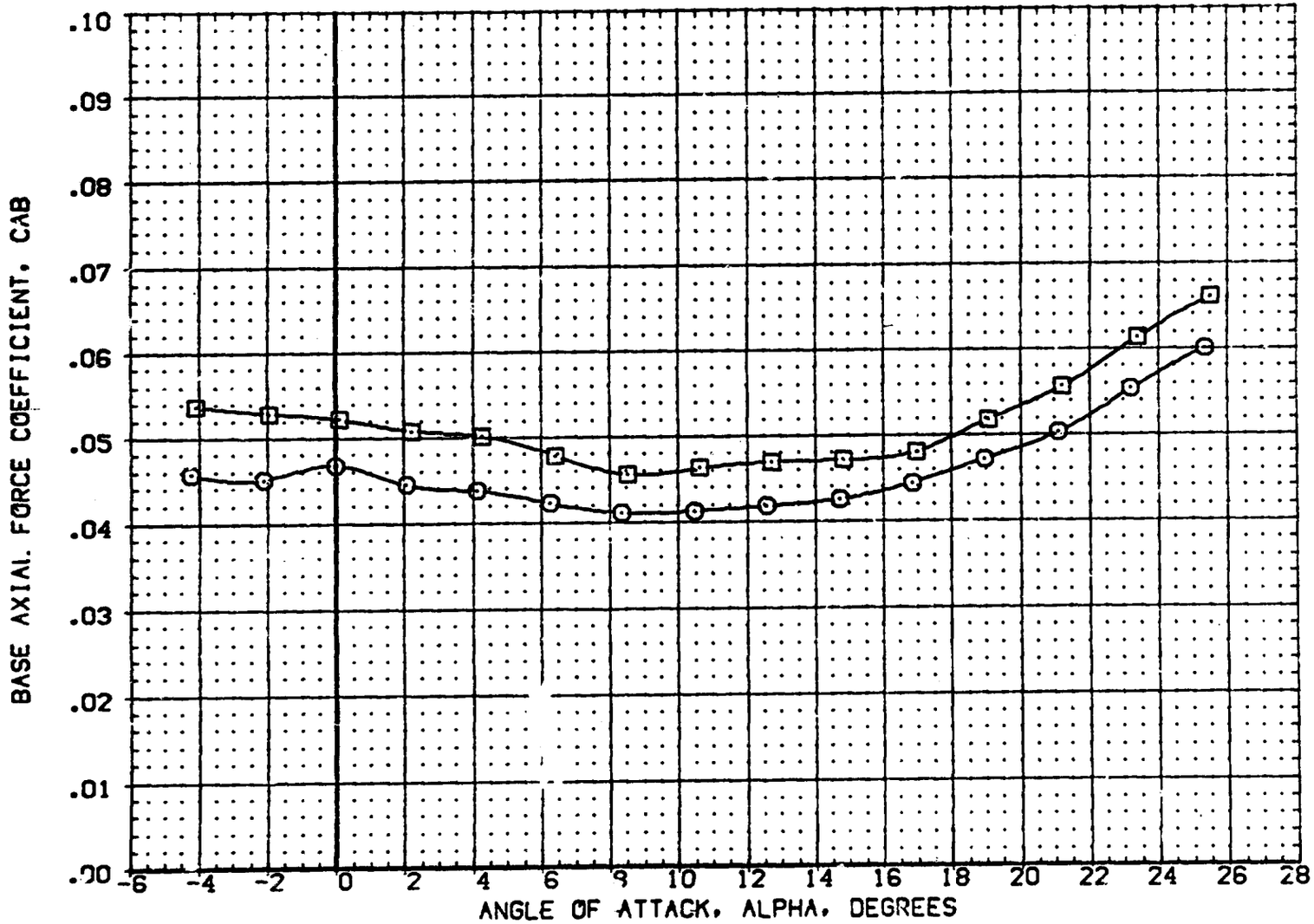


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPDBRK
[IDP124]	⊠	0A21	B17C7 H5M4F5	V107E23V7R6X9		.000	.000	-18.000	55.000
[IDP141]	⊟	0A21	B17C7 H5M4F5	V107E23V7R6X9		10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

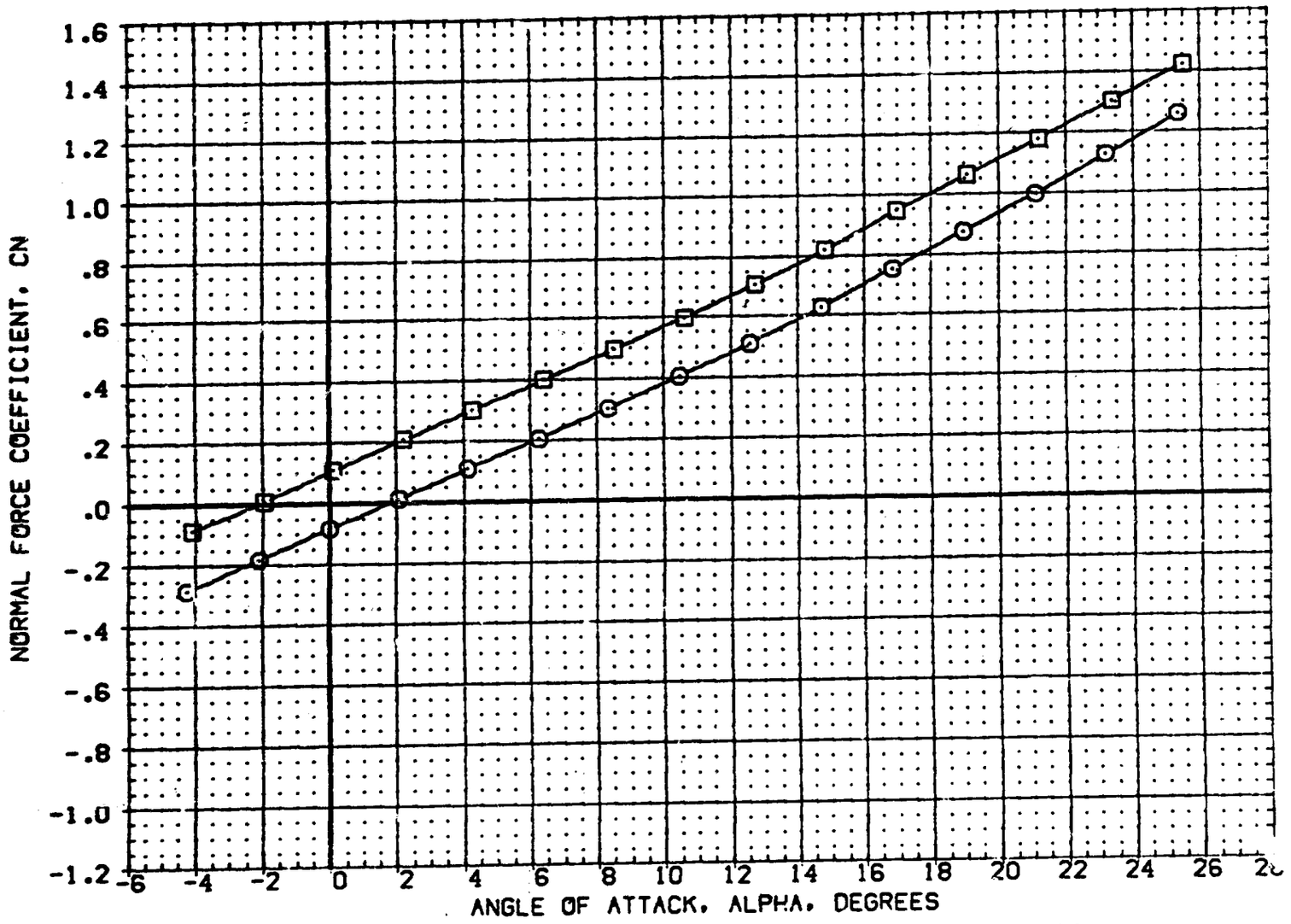


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP124)	0A21	B17C7 HSM4F5	W107E23V7R6X9	
(IDP141)	0A21	B17C7 HSM4F5	W107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.8359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

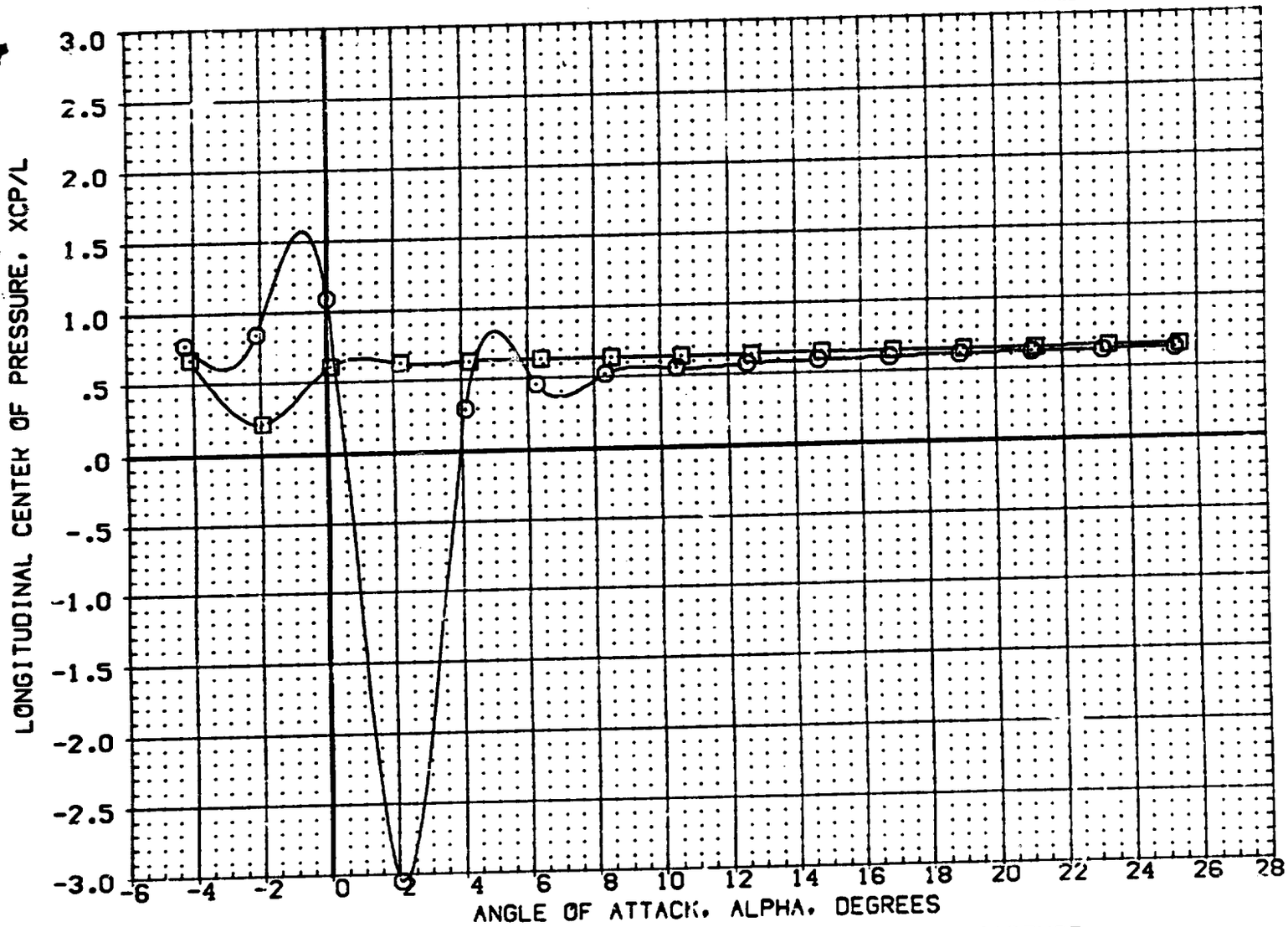


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[IDP124]	0A21	B17C7 HSH4F5	W107E23V7R6X9	
[IDP141]	0A21	B17C7 HSH4F5	W107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-10.000	55.000
10.000	.000	-10.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

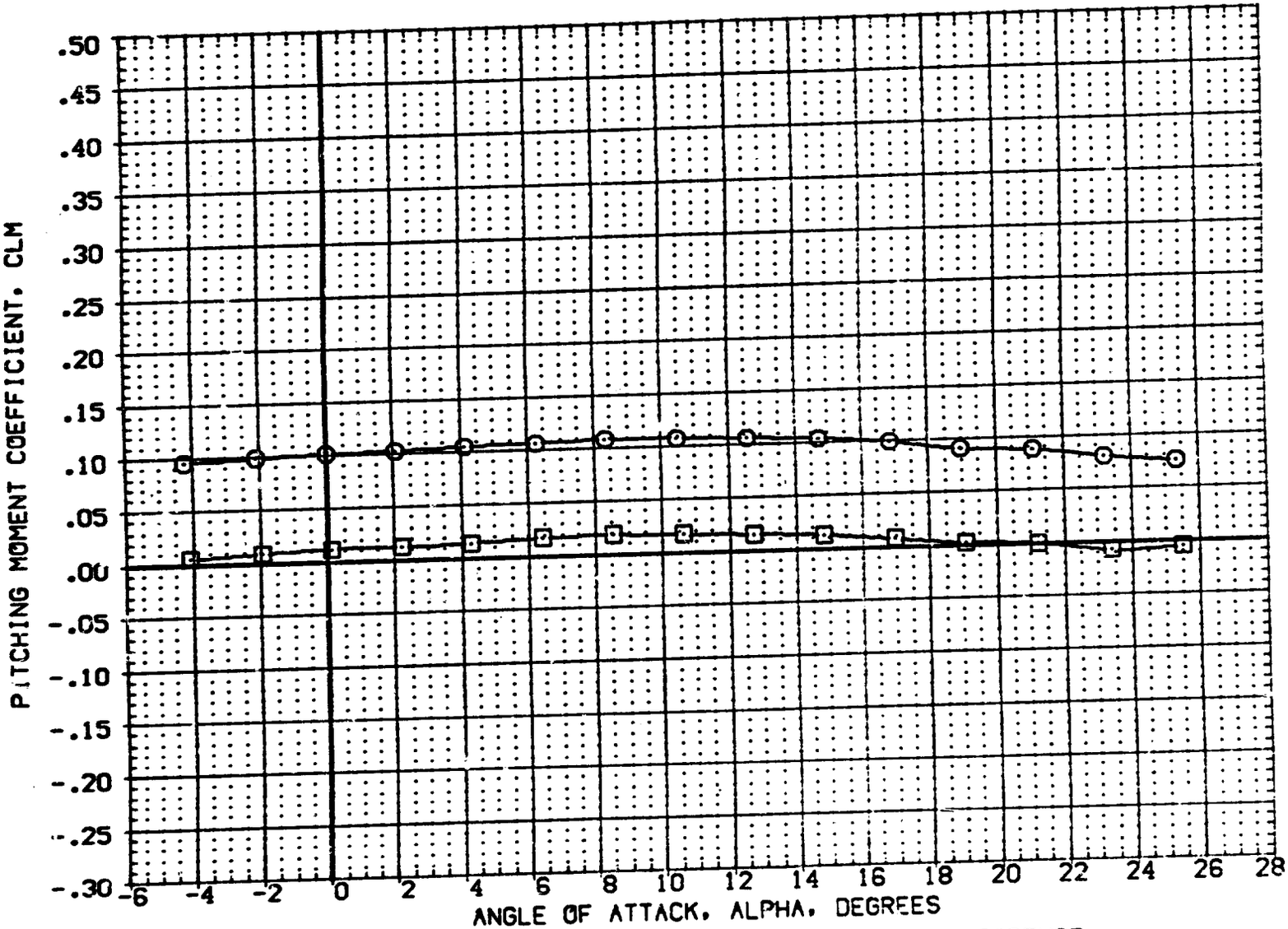


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BOFLAP	SPOBRK
[OOP141] ○	0A21 B17C7 H5M4F5 V107E23V7R6X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

[A]MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BDFLAP	SPDBRK
(DDP141) O	0A21 B17C7 H5M4F5 V1C7E23V7R6X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

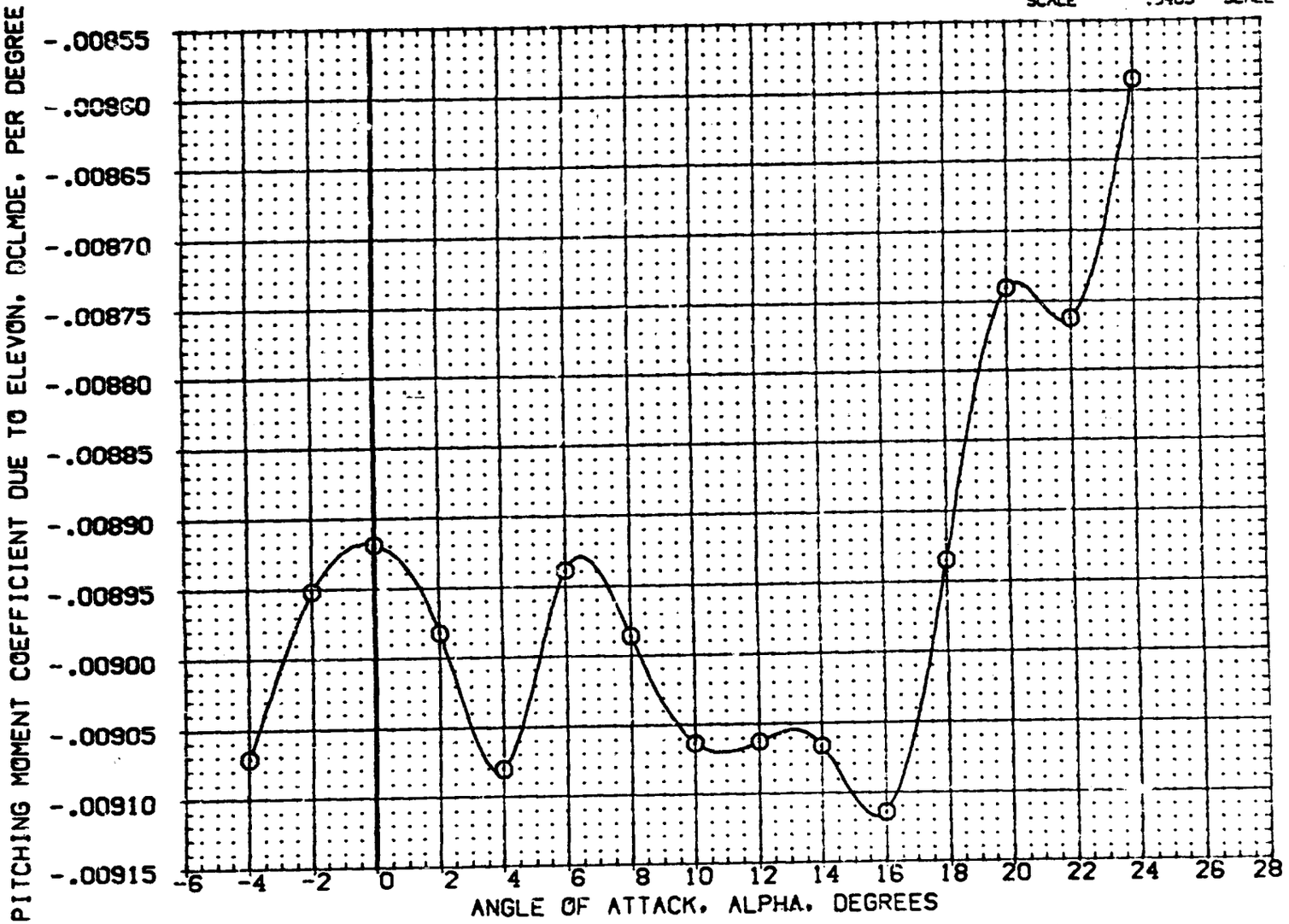


FIGURE 19 ELEVON EFFECTIVENESS WITH H5 CANARD AT 20 DEG. INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
[IDP165]	□	0A21	B17C7 HSM425	W107E23V7R6	X9	.000	.000	-18.000	55.000
[IDP169]	□	0A21	B17C7H6 M425	W107E23V7R6	X3	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

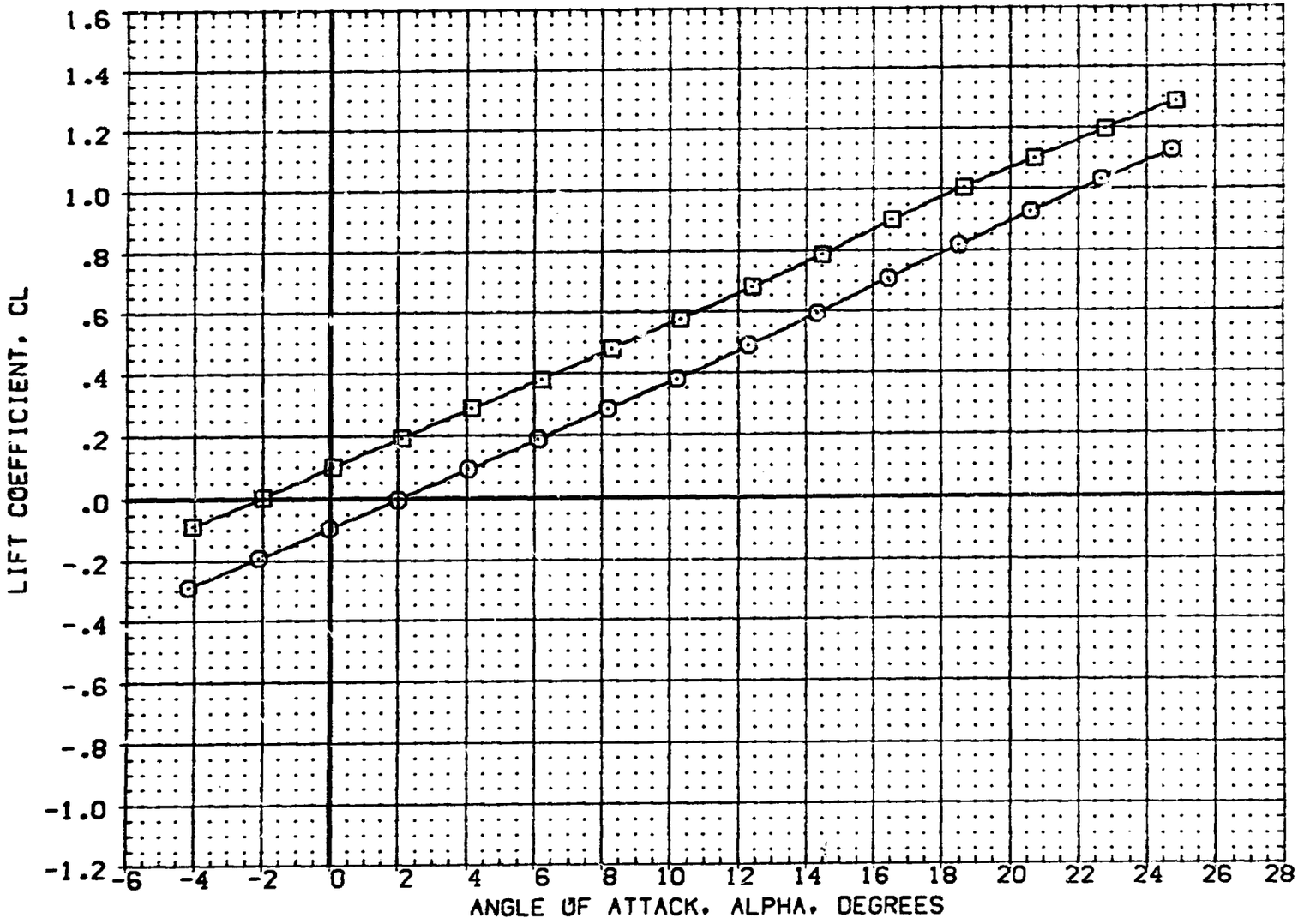


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(IDP165)		0A21	B17C7 H6M4F5	V107E23V7R6	X9	.000	.000	-18.000	55.000
(IDP169)		0A21	B17C7H6 M4F5	V107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

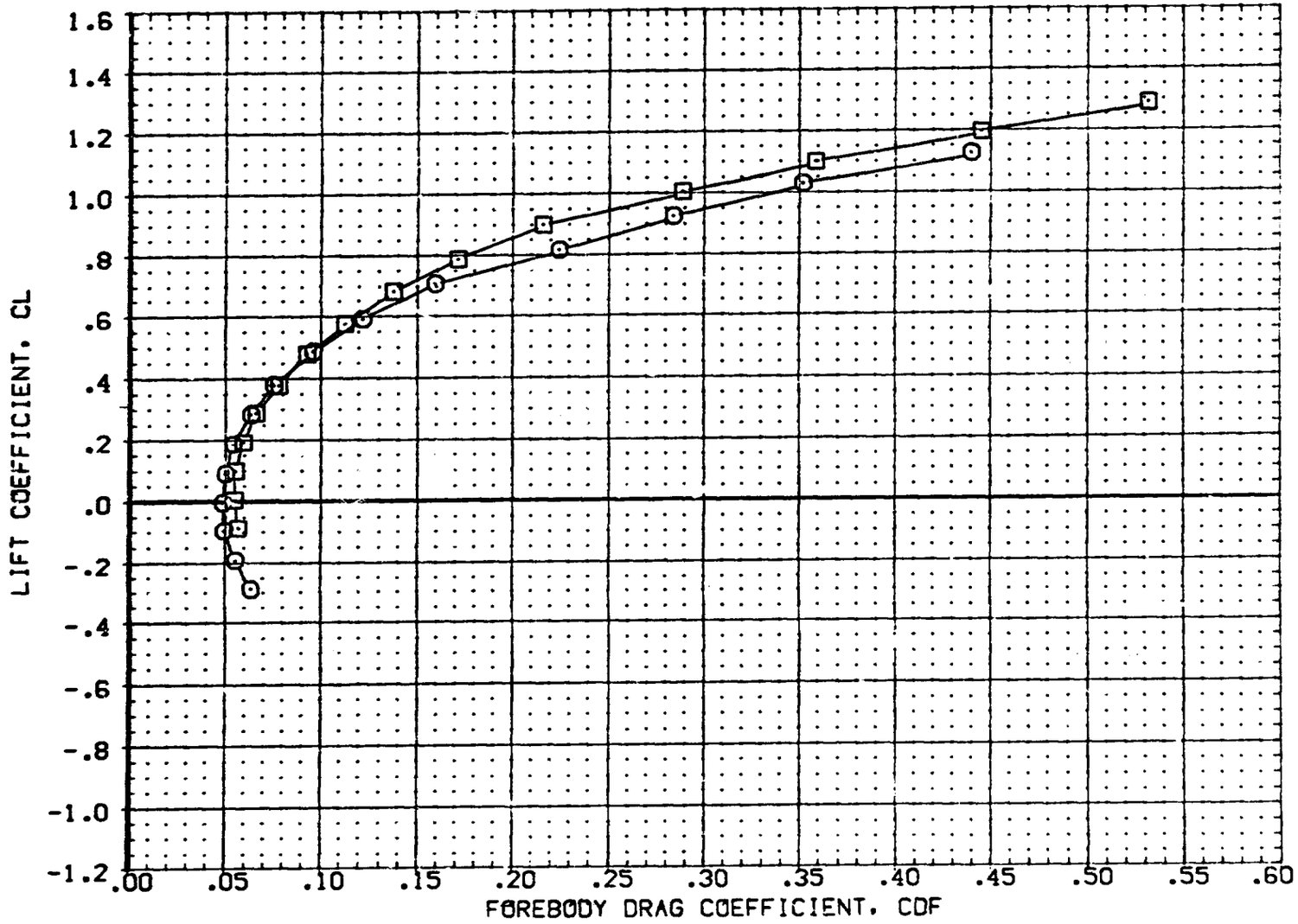


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP165)	○	0A21	B17C7 H6 M4F5	W107E23V7R6	X9
(IDP169)	□	0A21	B17C7H6 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

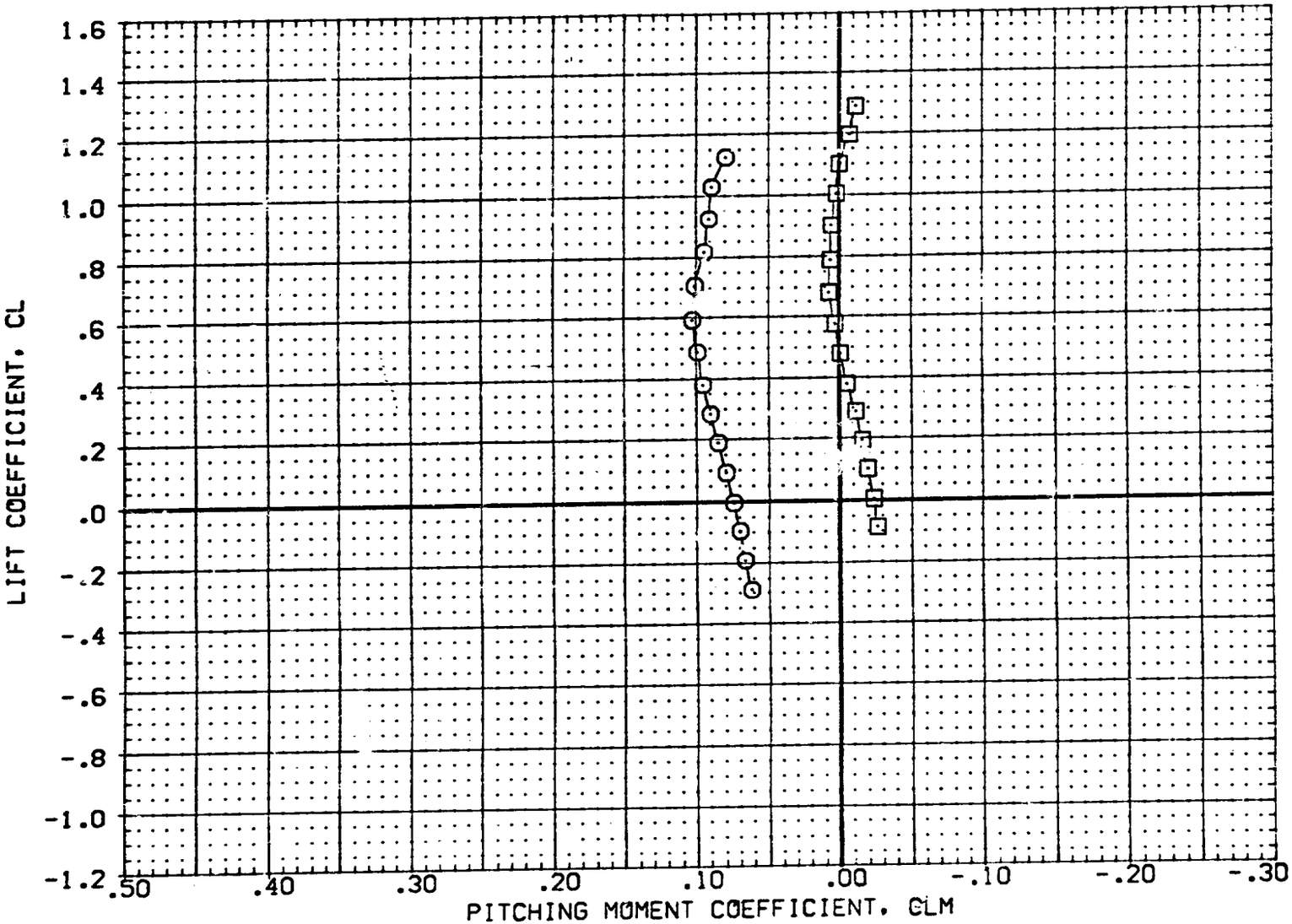


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(1DP1(5)	○	0A21	B17C7 H6M4F5	W107E23V7R6 X9	.000	.000	-18.000	55.000
(1DP16)	□	0A21	B17C7H6 M4F5	W107E23V7R6 X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

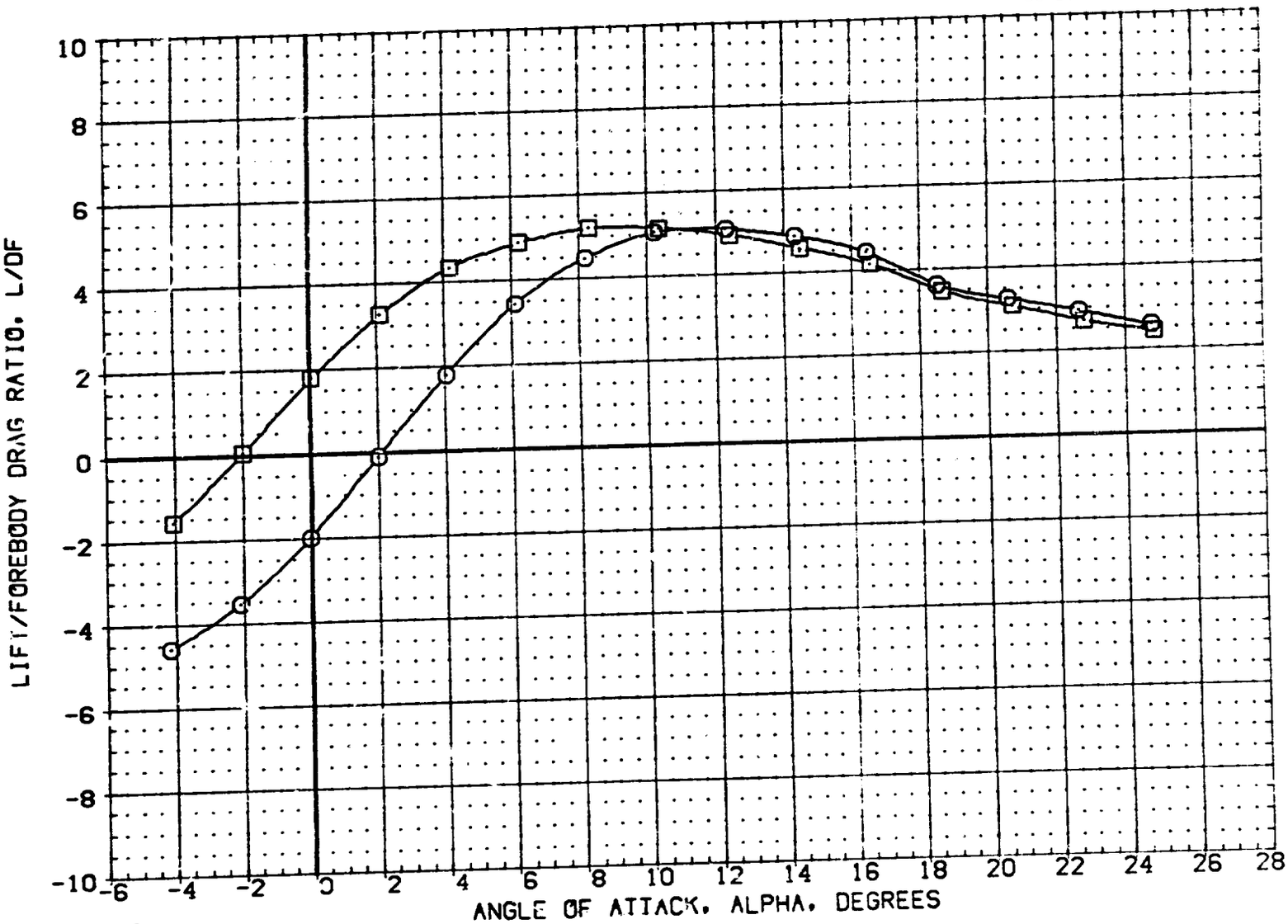


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP165)	□	CA2:	B17C7 H6M4F5	W107E23V7R6	X9
(IDP169)	□	CA2:	B17C7H6 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

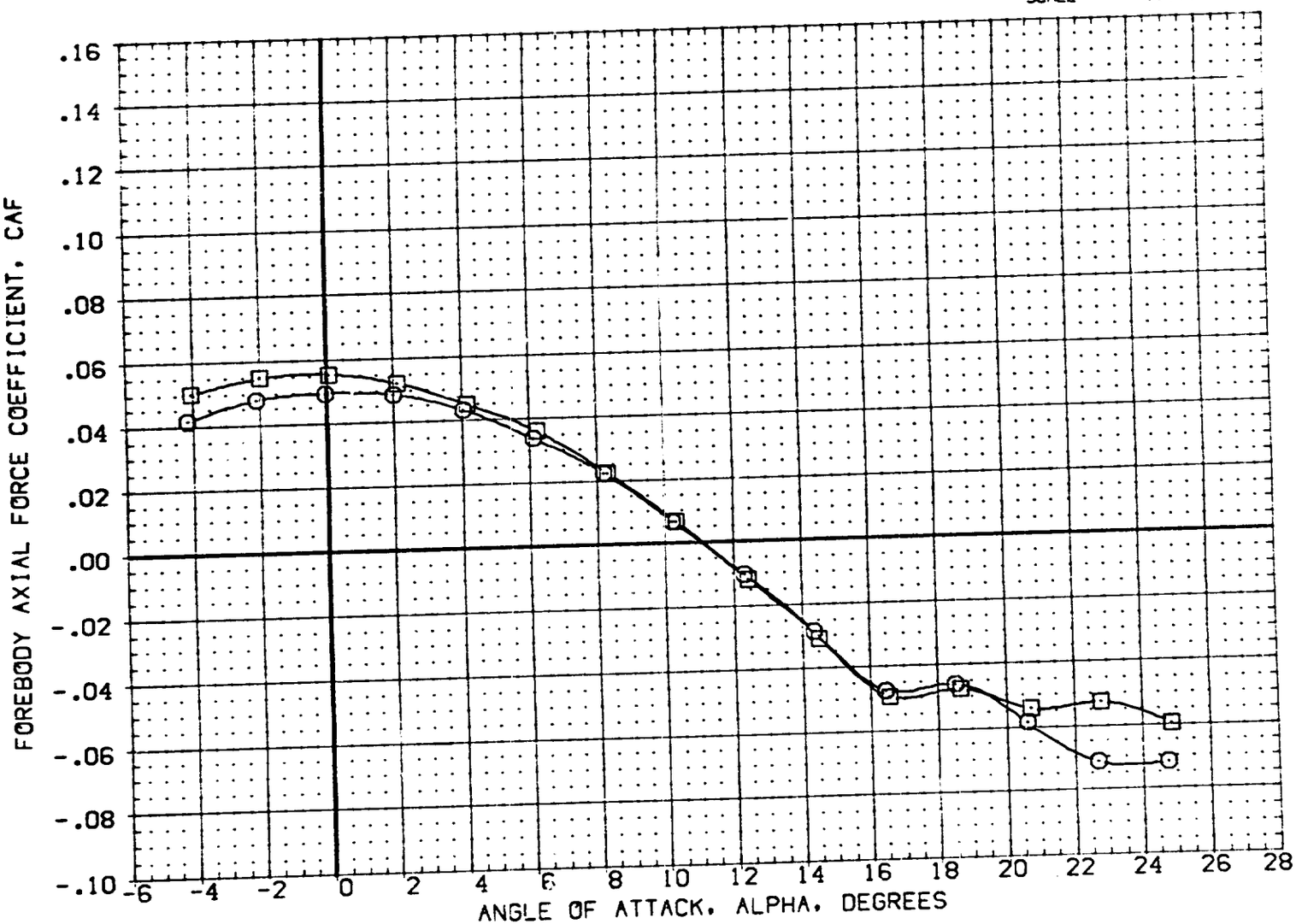


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP165)	○	0A21	B17C7 H6M4F5	W107E23V7R6	X9
(IDP169)	□	0A21	B17C7H6 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

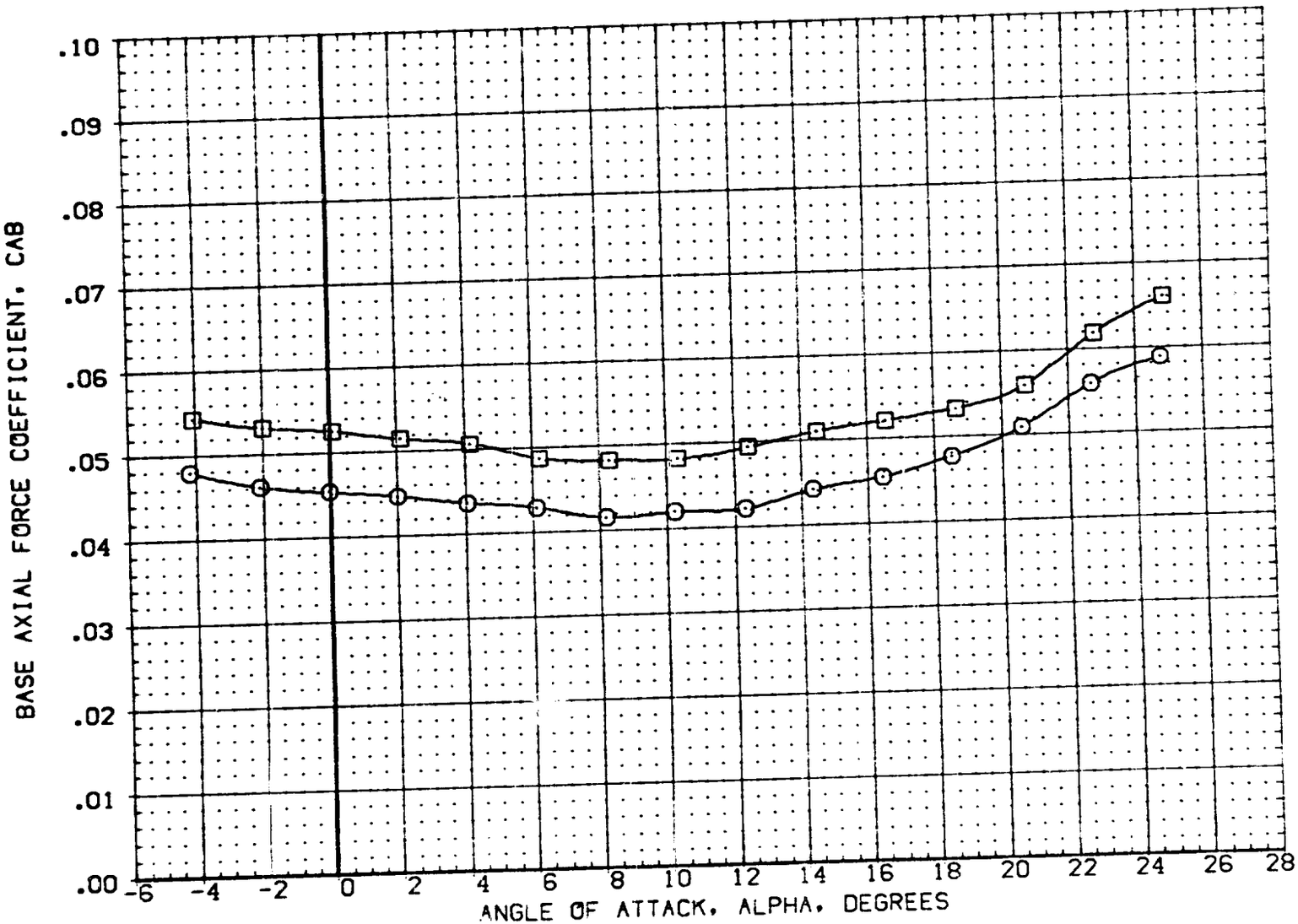


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP165)	○	DA2:	B17C7 H6M4F5	W107E23V7R6	X9
(IDP169)	□	CA2:	B17C7H6 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

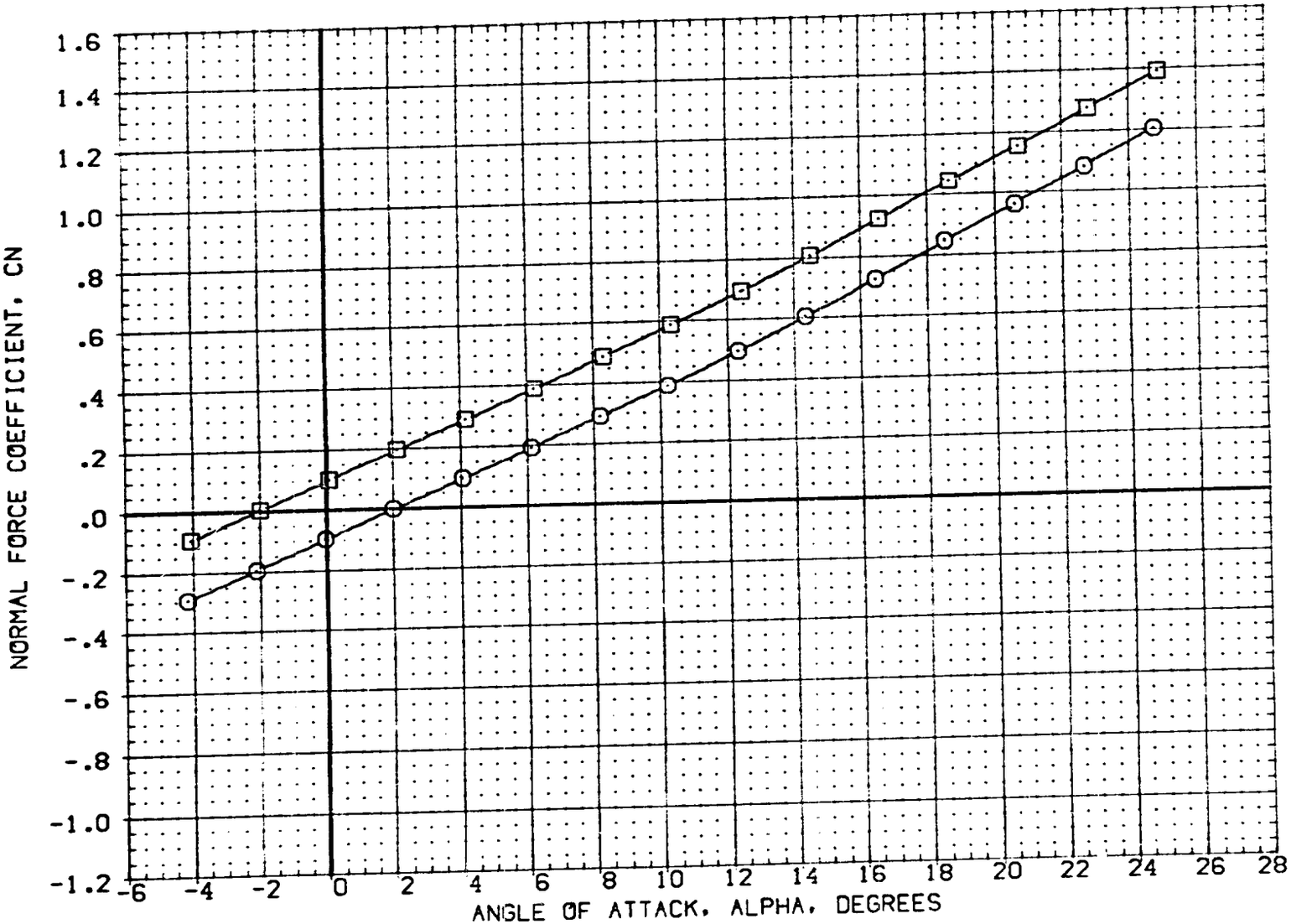


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .:6

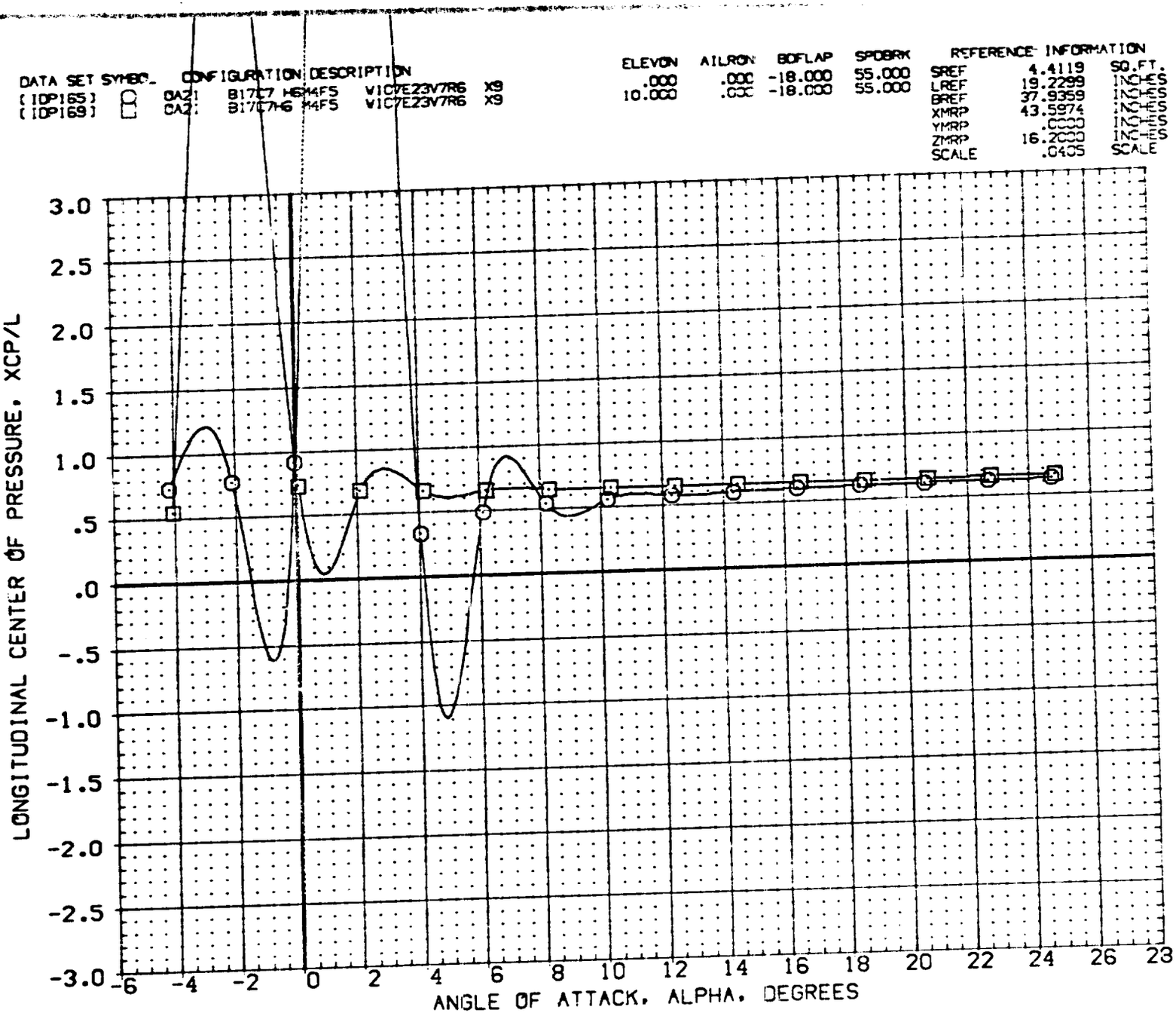


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P165)	□	CA21	B17C7 H6M4F5	W107E23V7R6	X9
(10P169)	□	CA21	B17C7H6 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

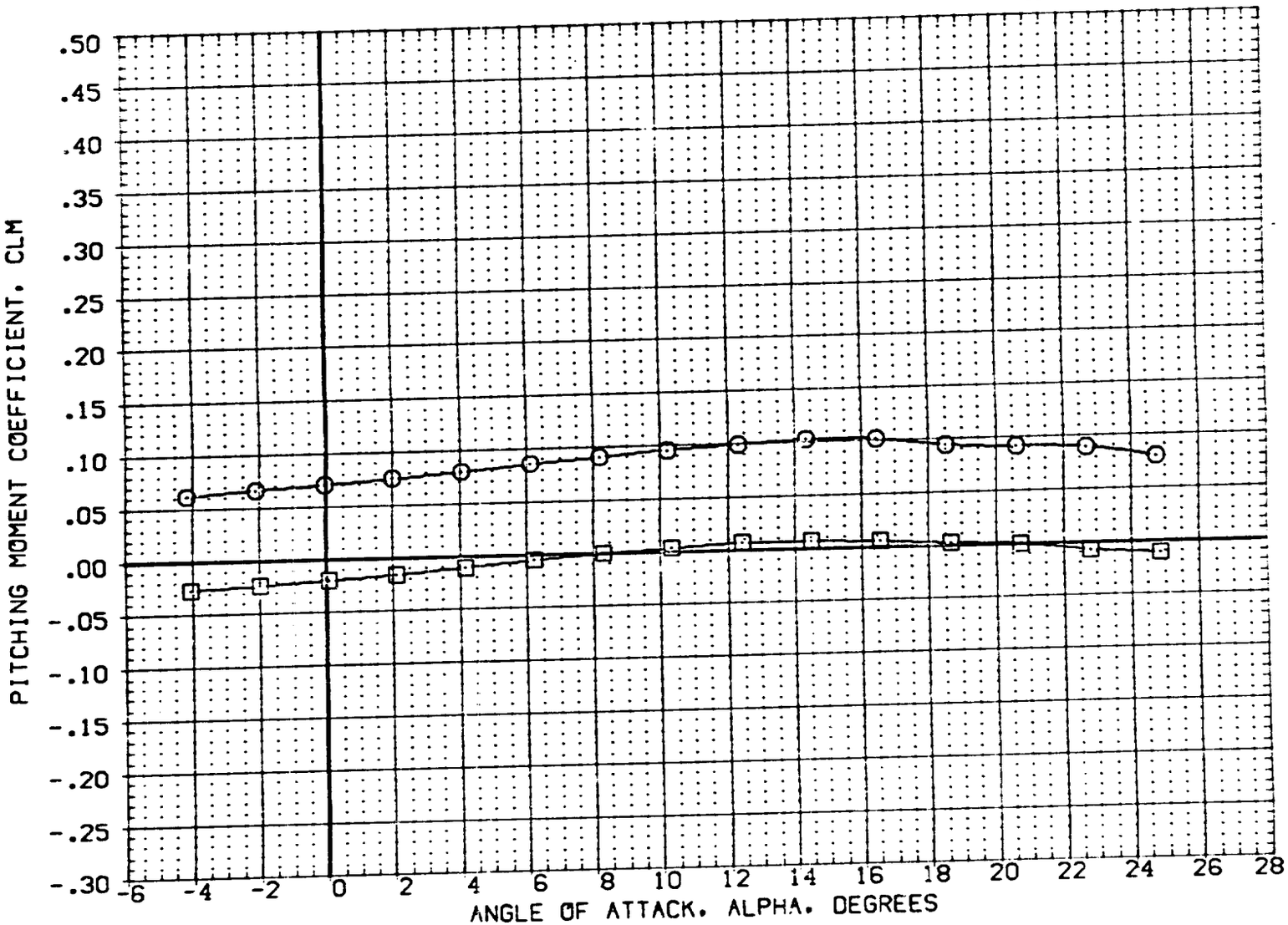


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(COP169) ○ 0A2: B17C7H6 M4F5 V107E23V7R6 X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

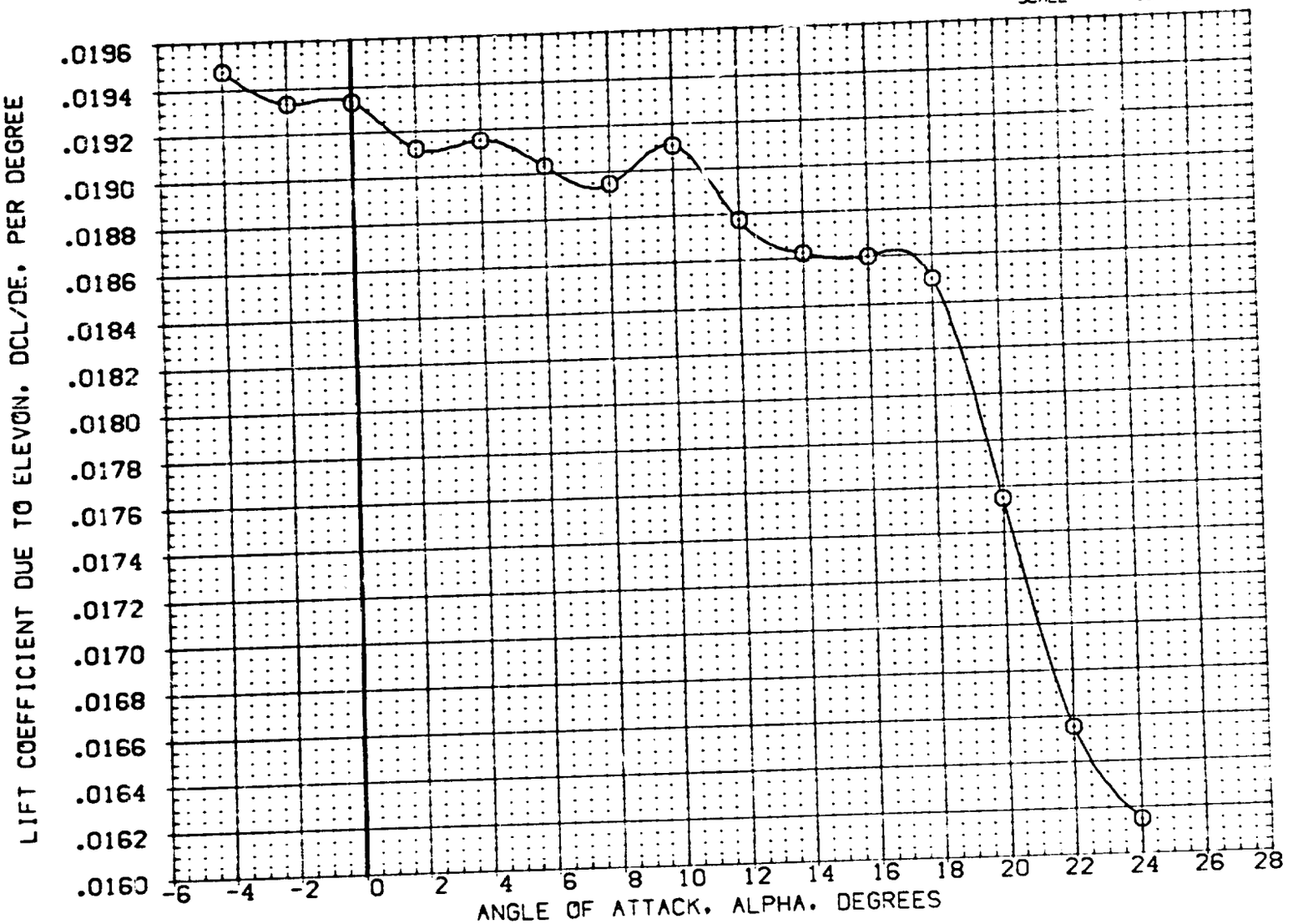


FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CCP169) ○ 0A21 B17C7H6 M4F5 W107E23V7R6 X9

MAXLE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 20 ELEVON EFFECTIVENESS WITH H6 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP162)	○	0A21	B17C7 H7M4F5	W1C7E23V7R6	X9
(1DP171)	□	0A21	B17C7H7 M4F5	W1C7E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

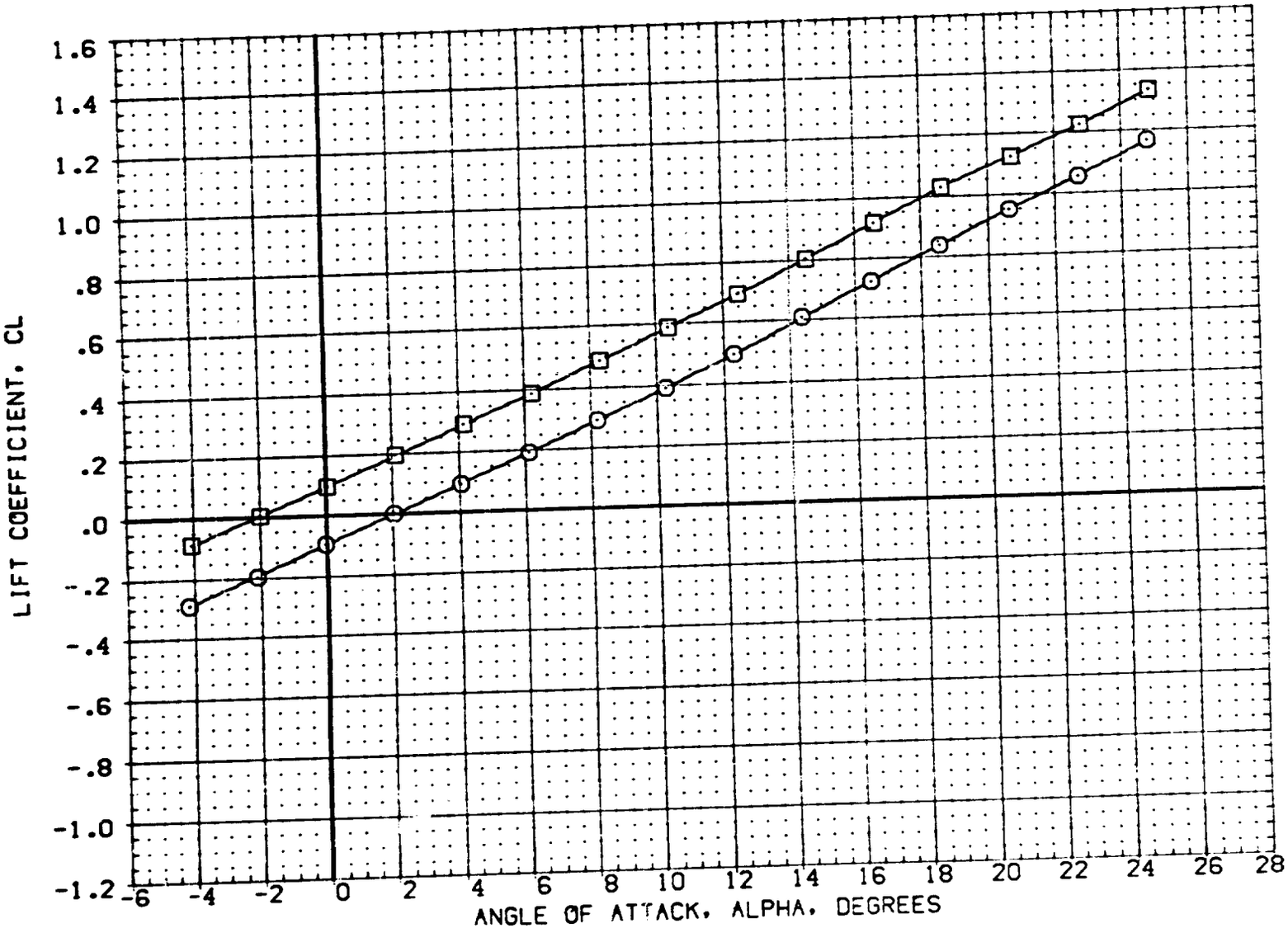


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP162)	○	CA2:	B17C7 H7M4F5	W107E23V7R6	X9
(IDP171)	□	CA2:	B17C7H7 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

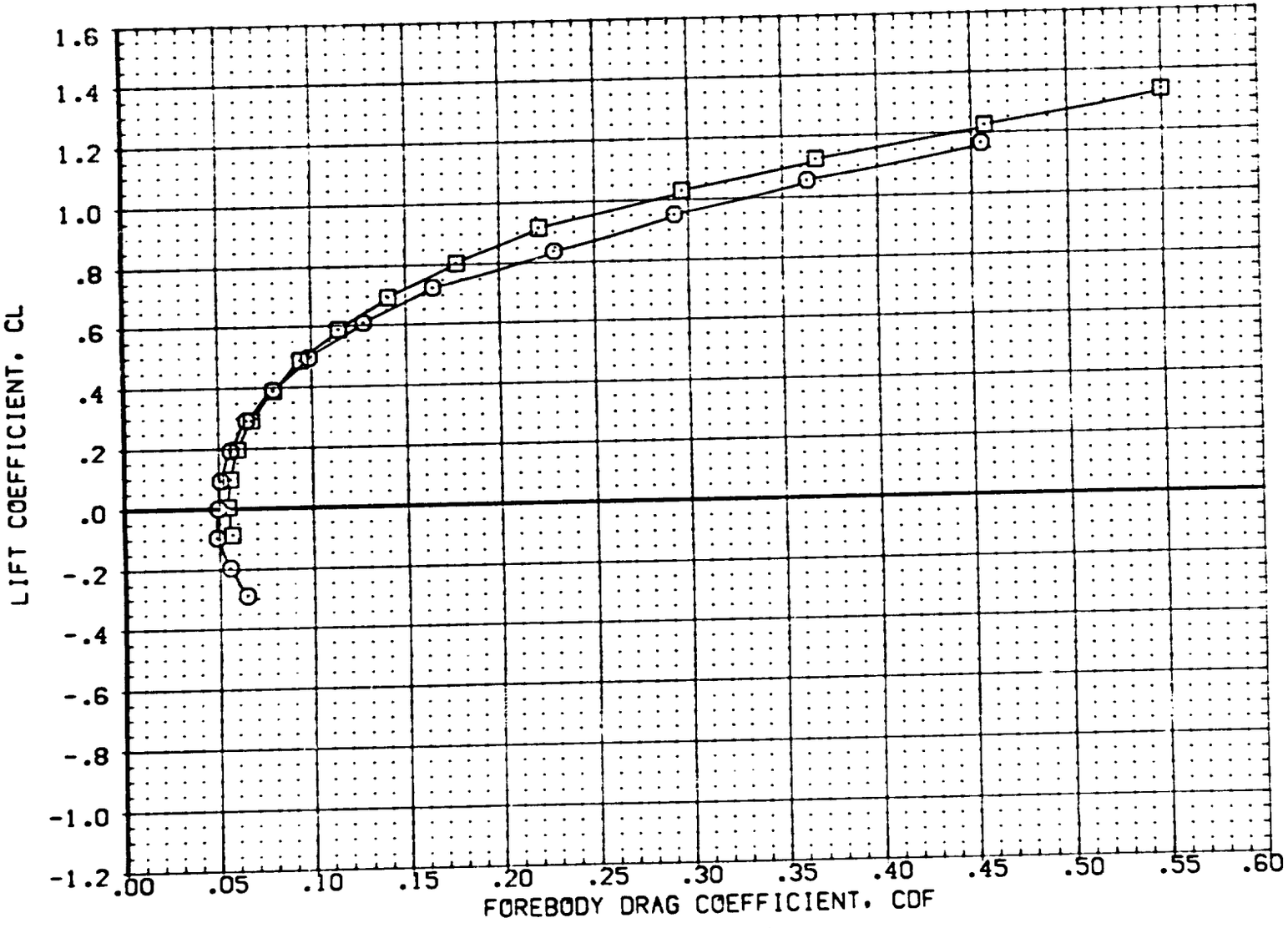


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP162)	○	0A21	B17C7 H7M4F5	V107E23V7R6	X9
(IDP171)	□	0A21	B17C7M7 M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

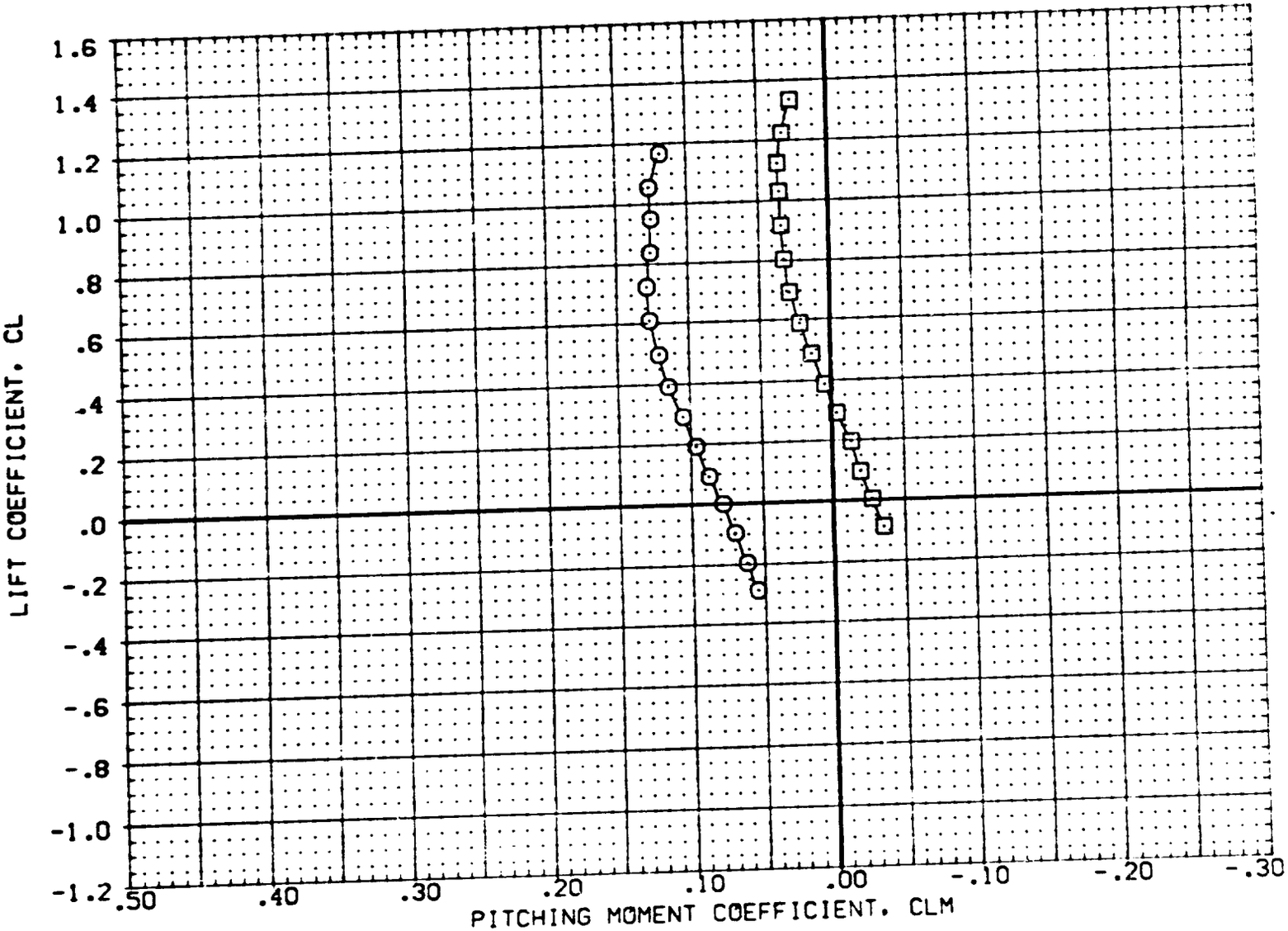


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .:6

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPDBRK
(IDP162) ○	BA2:	B:7C7 H7M4F5	W107E23V7R6	X9	.000	.000	-18.000	55.000
(IDP171) □	BA2:	B:7C7M7 M4F5	W107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

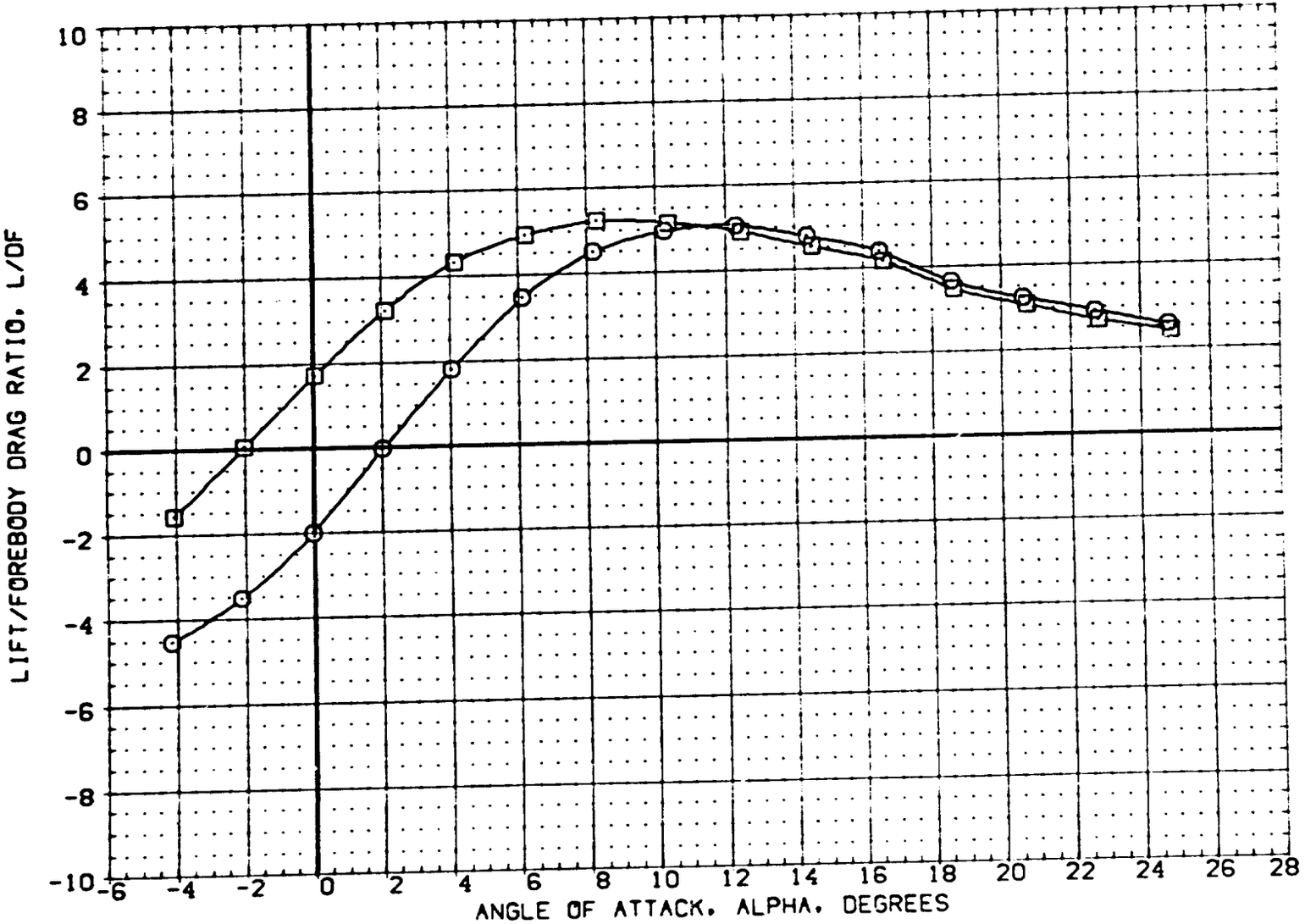


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .:6

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
[IDP162]	□	0A21	B17C7 H7M4F5	V107E23V7R6	X9
[IDP171]	□	0A21	B17C7H7 M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE

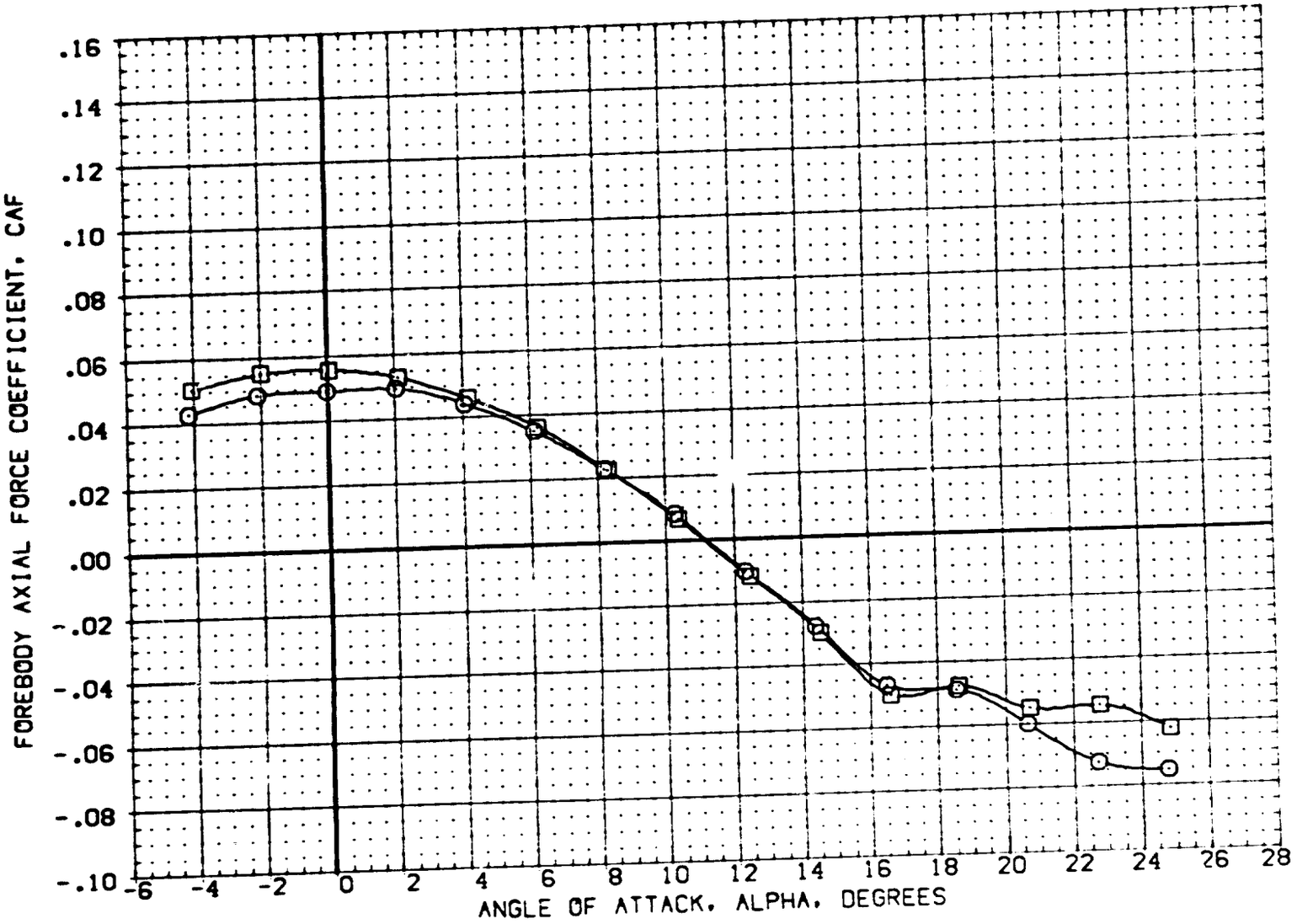


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(:DP162:)	□	DA21	B17C7 H7M4F5	W1C7E23V7R6	X9
(:DP17:)	□	CA21	B17C7H7 M4F5	W1C7E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

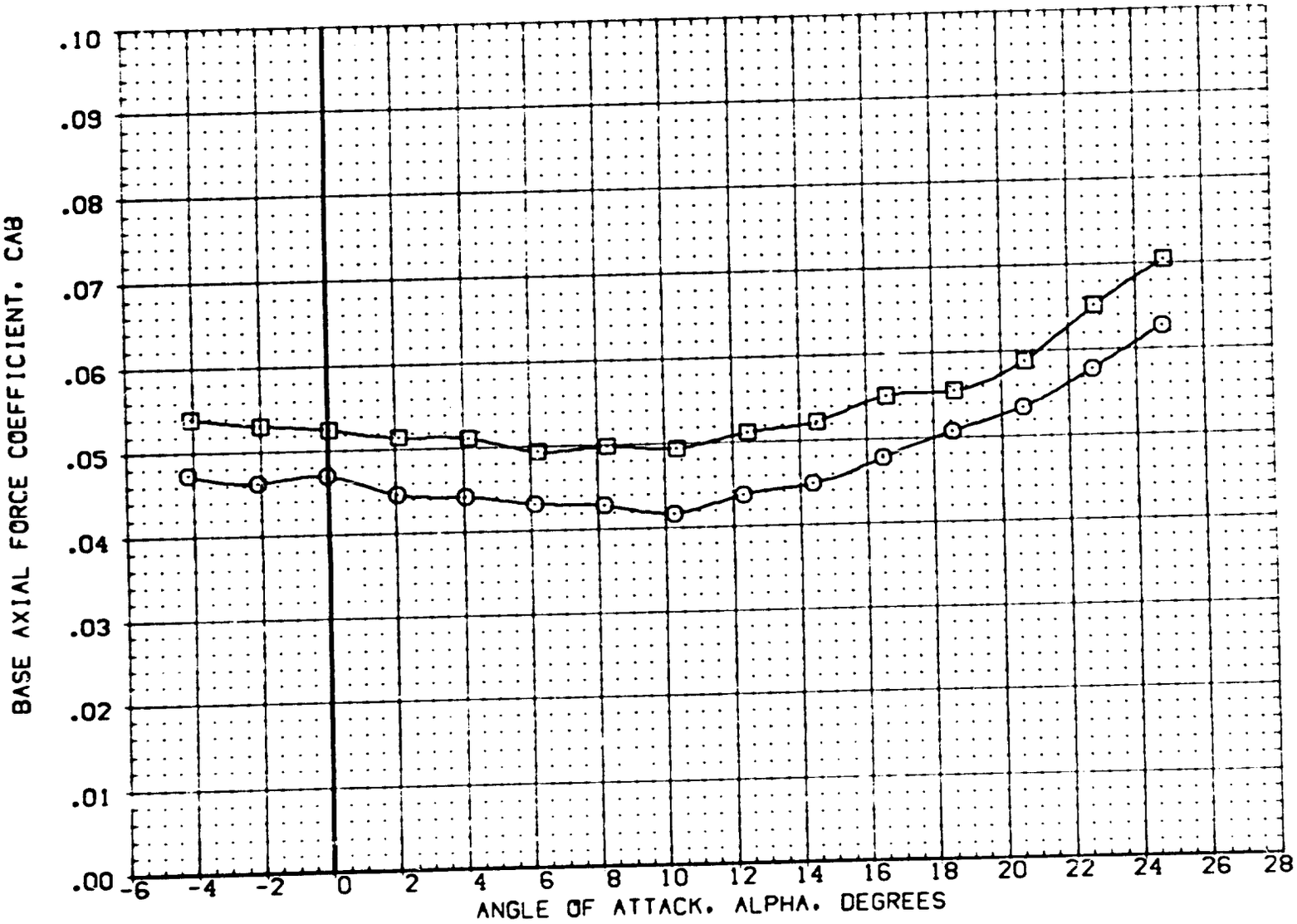


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
[IDP162]	○	0A21	B17C7 H7M4F5	W107E23V7R6	X9
[IDP171]	□	0A21	B17C7H7 M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

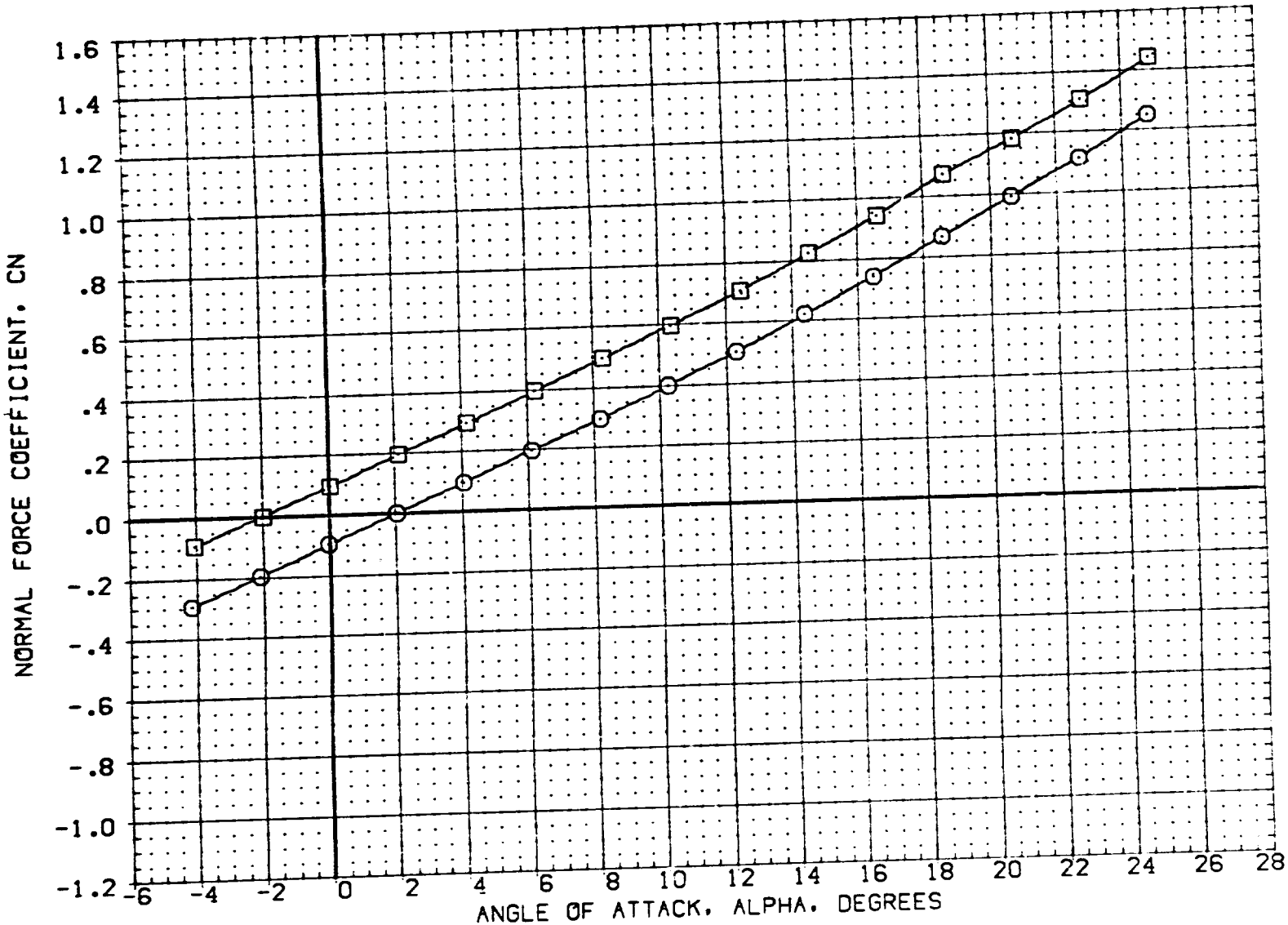


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

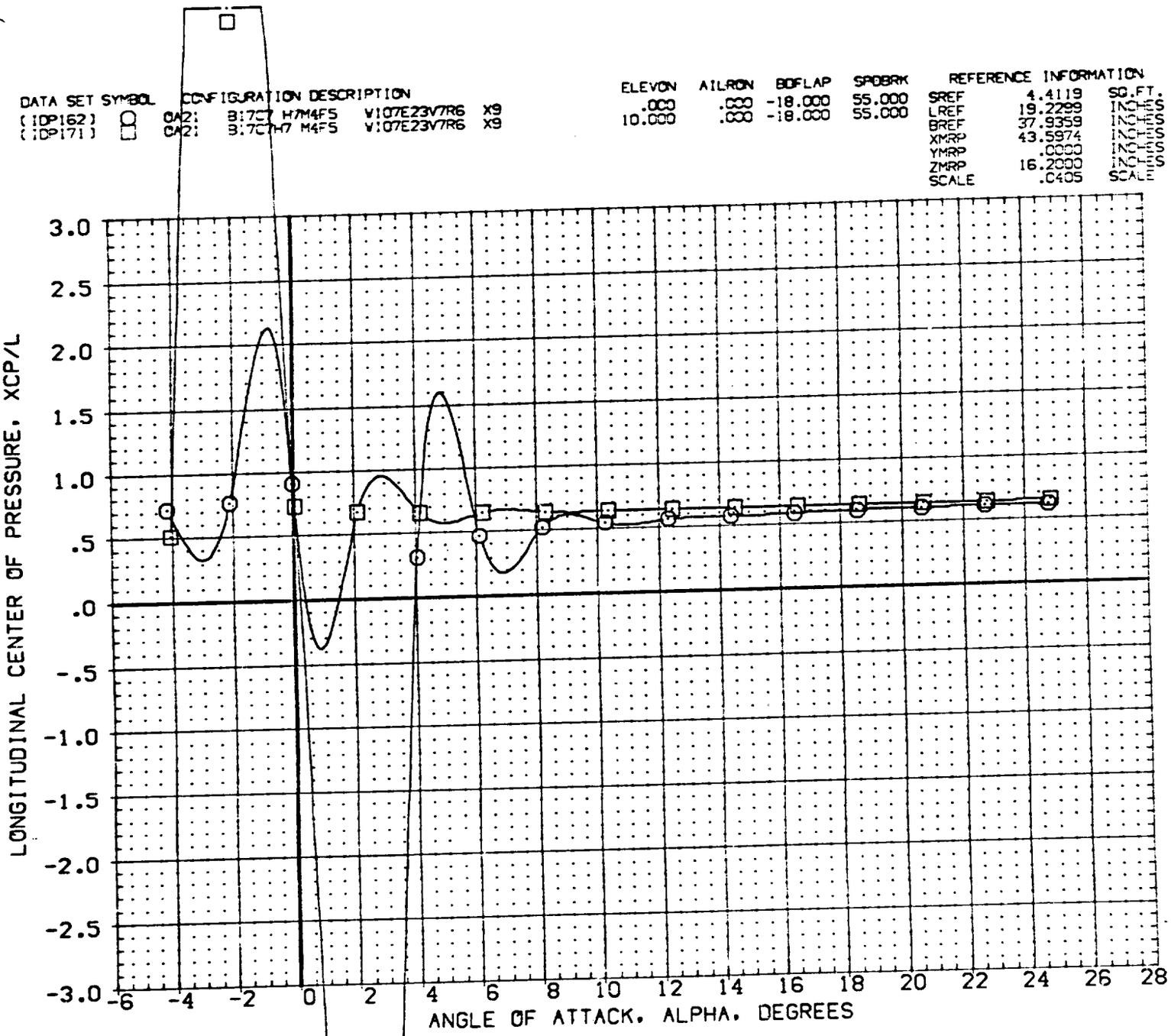


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPDBRK
[ ]OP162[ ]	○	0A21	B17C7 H7M4F5	W107E23V7R6 X9	.000	.000	-18.000	55.000
[ ]OP171[ ]	□	0A21	B17C7H7 M4F5	W107E23V7R6 X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

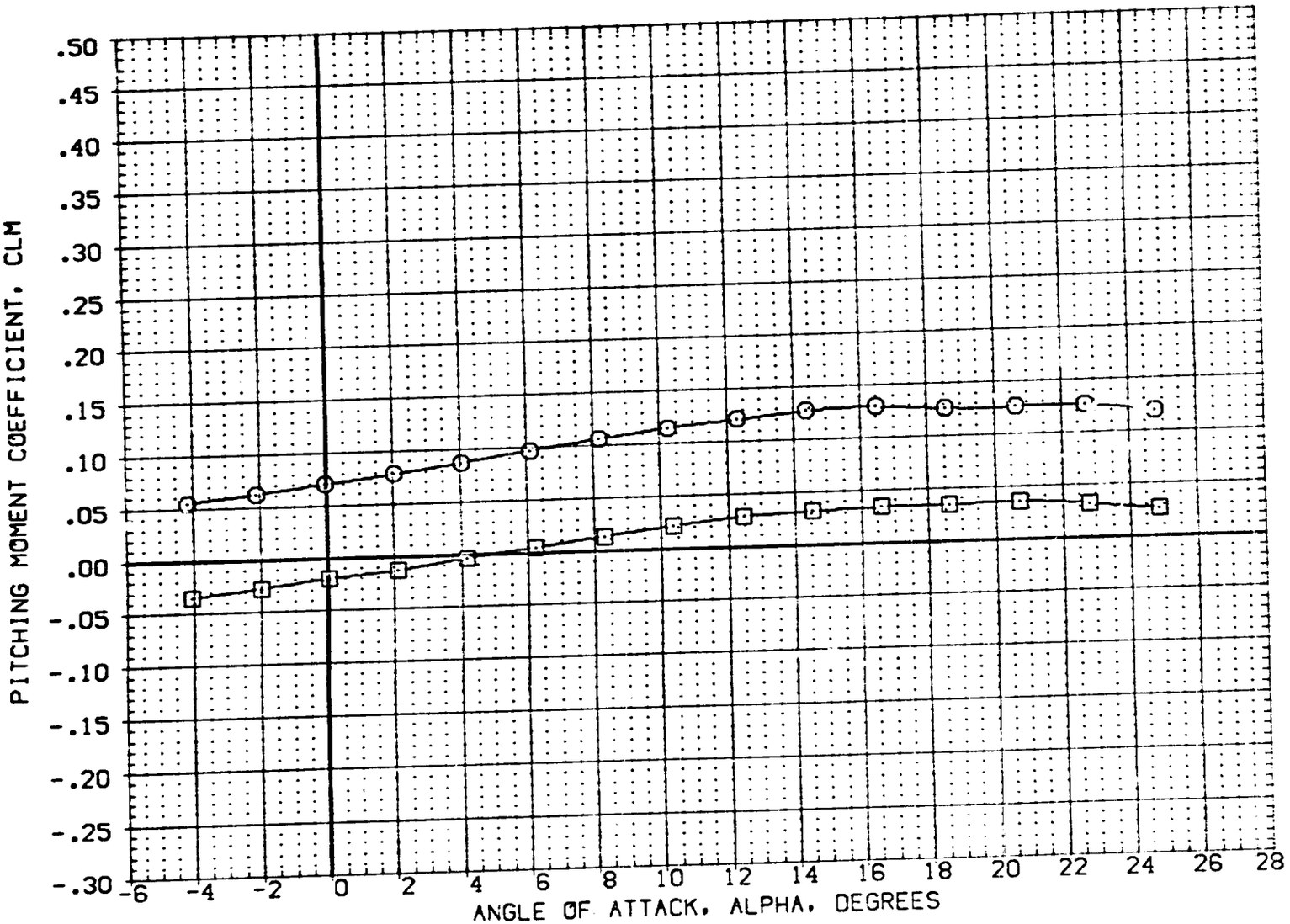


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(00P171) ○ 0A21 B17C7H7 M4F5 V1C7E23V7R6 X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

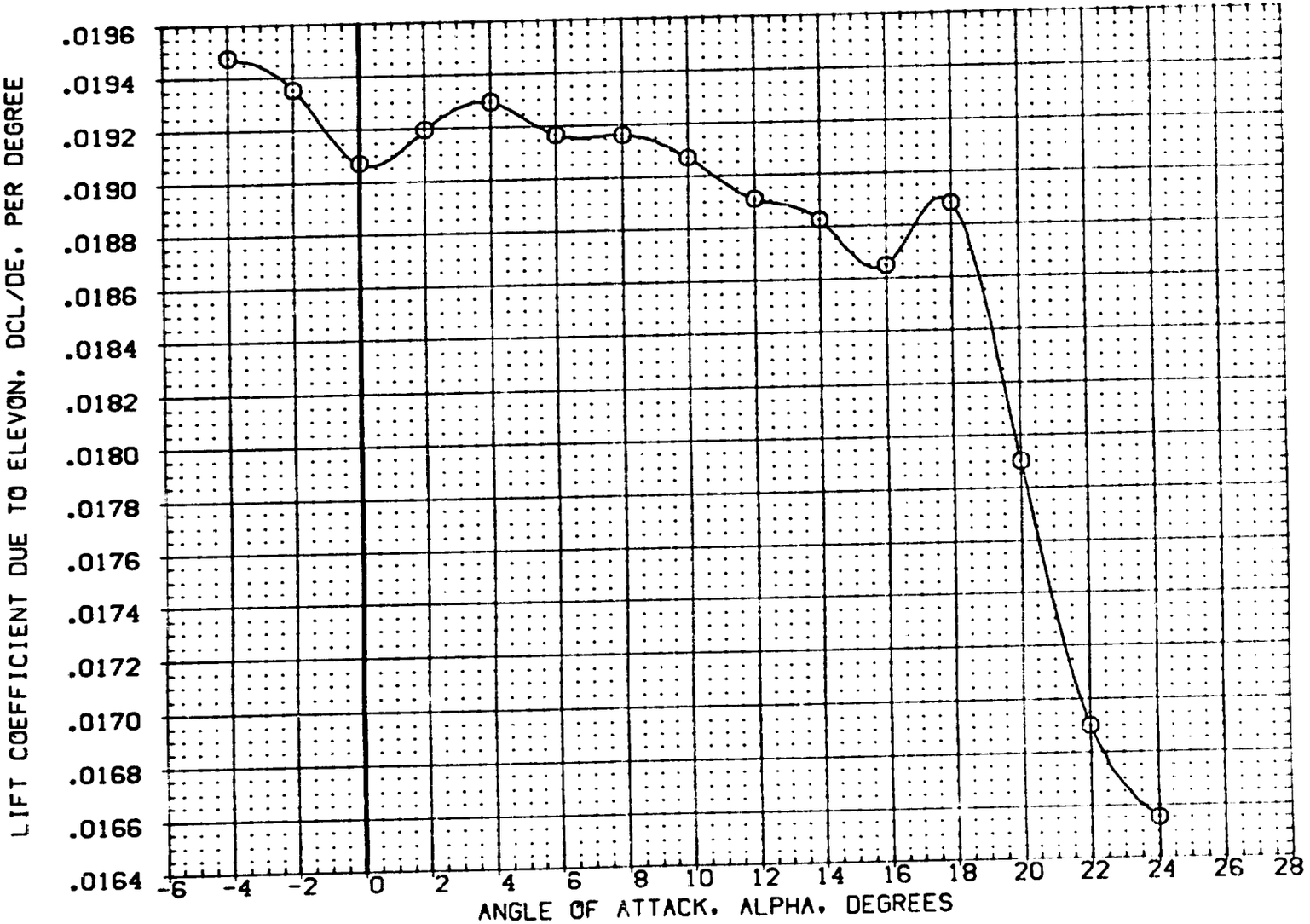


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(03P171) ○ 0A21 B17C7H7 M4F5 W107E23V7R6 X9

MAXELE	DELELE	BDFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

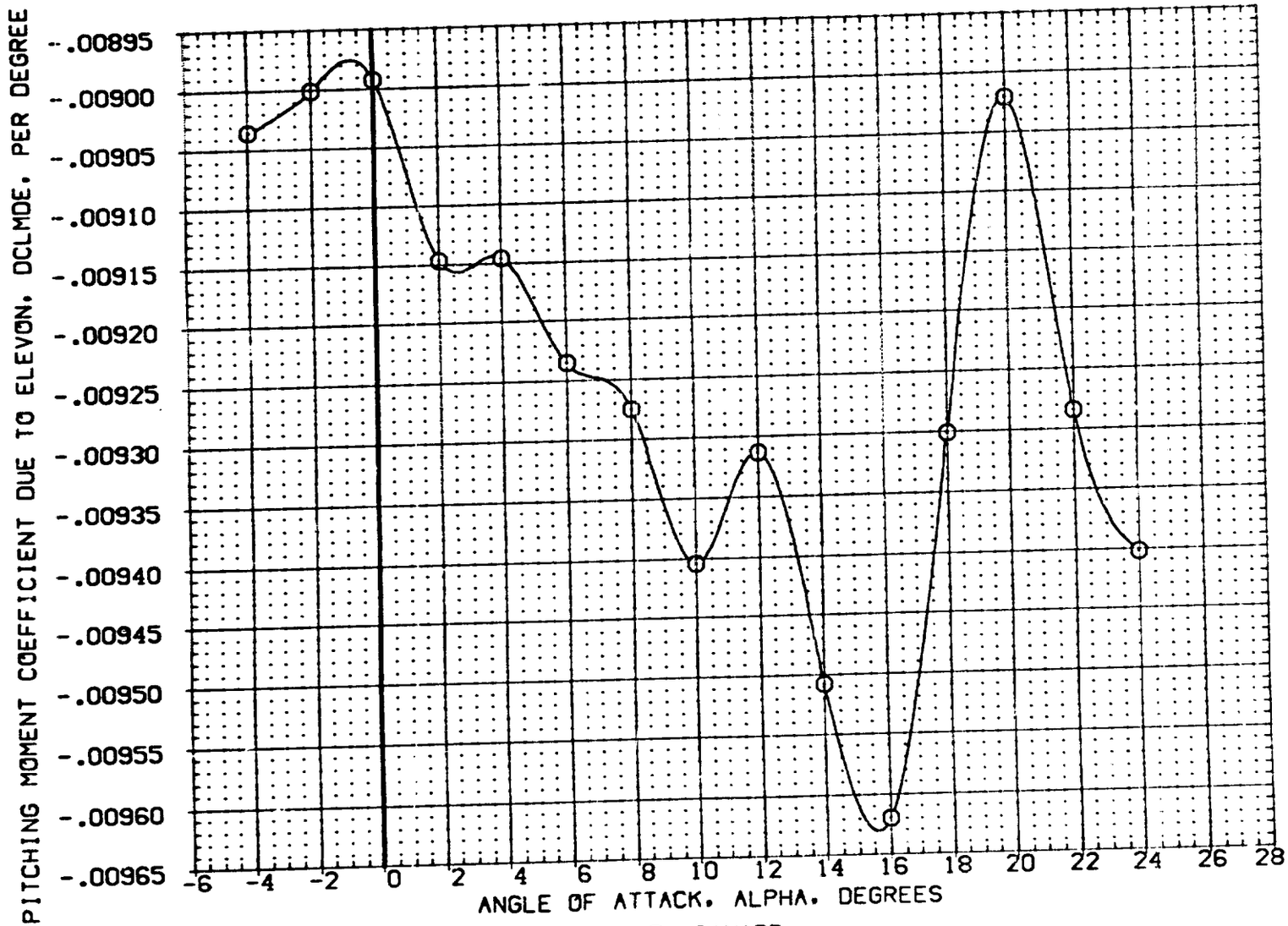


FIGURE 21 ELEVON EFFECTIVENESS WITH H7 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(IDP144)	○	0A21 B17C7 H8 M4F5 V107E23V7R6X9
(IDP153)	□	0A21 B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

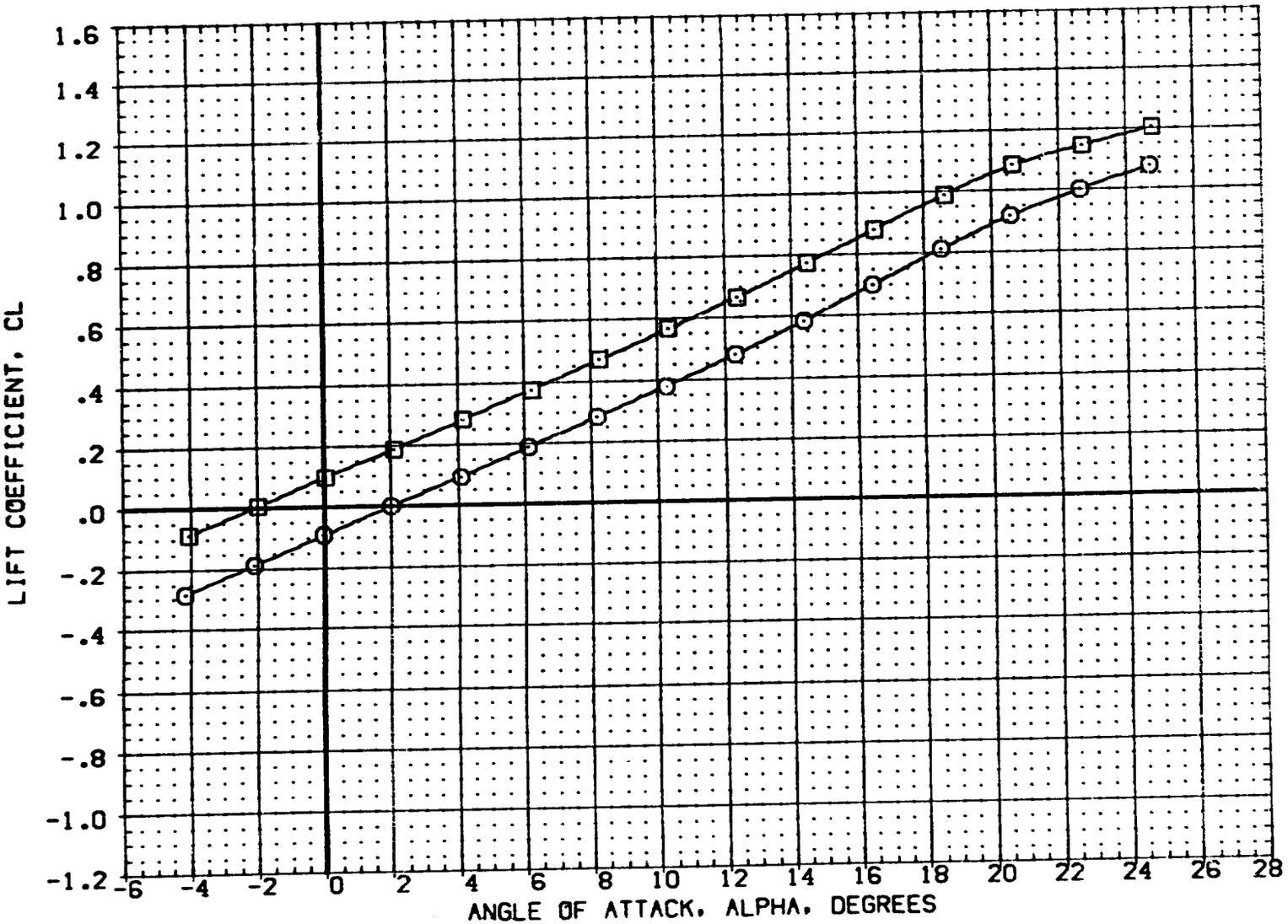


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
[IDP144] ○	0A21 B17C7 H8 M4F5 V107E23V7R6X9
[IDP153] □	0A21 B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

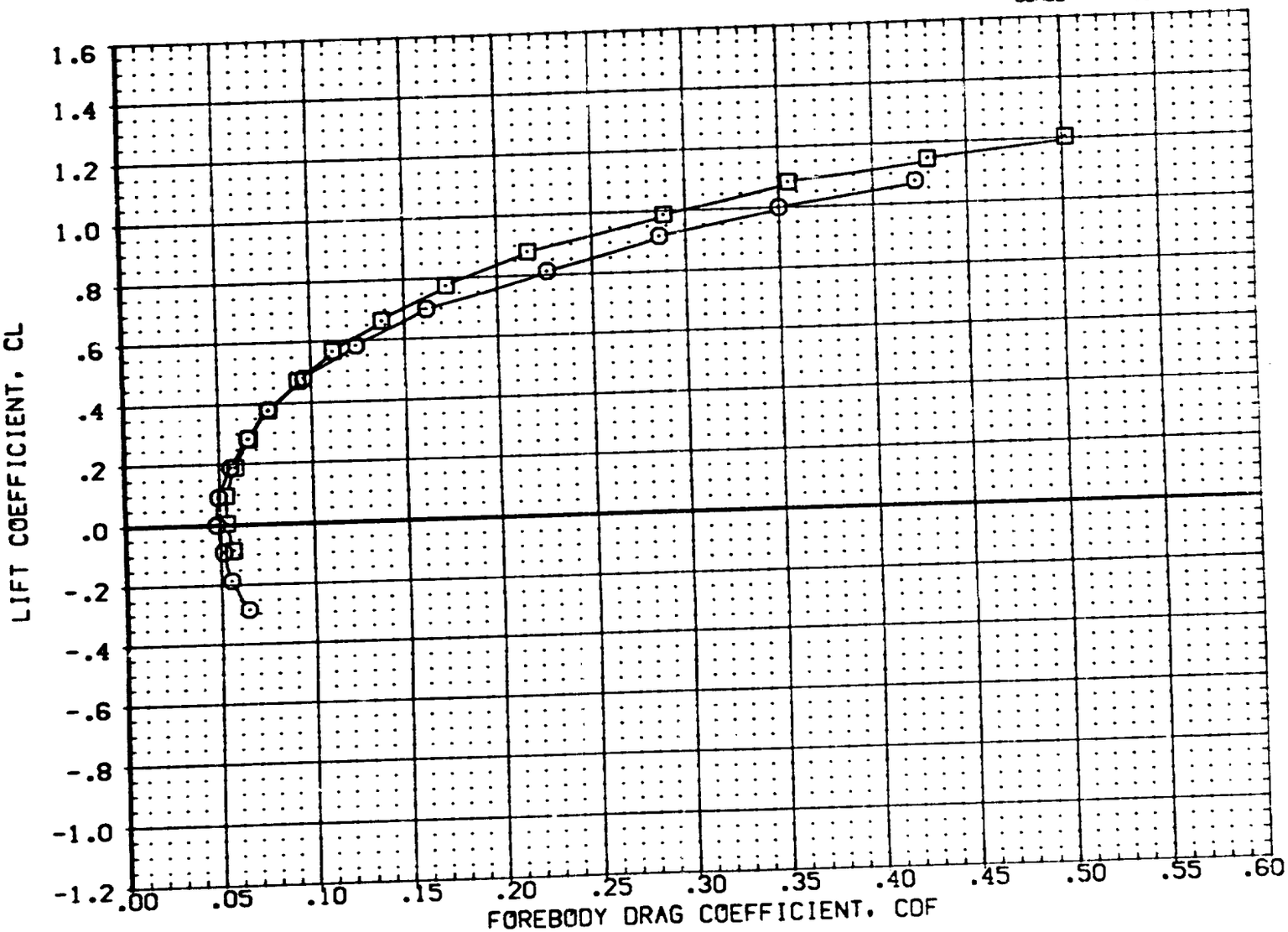


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	
[IDP144]	○	0A21	B17C7 H8 M4F5 V107E23V7R6X9
[IDP153]	□	0A21	B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

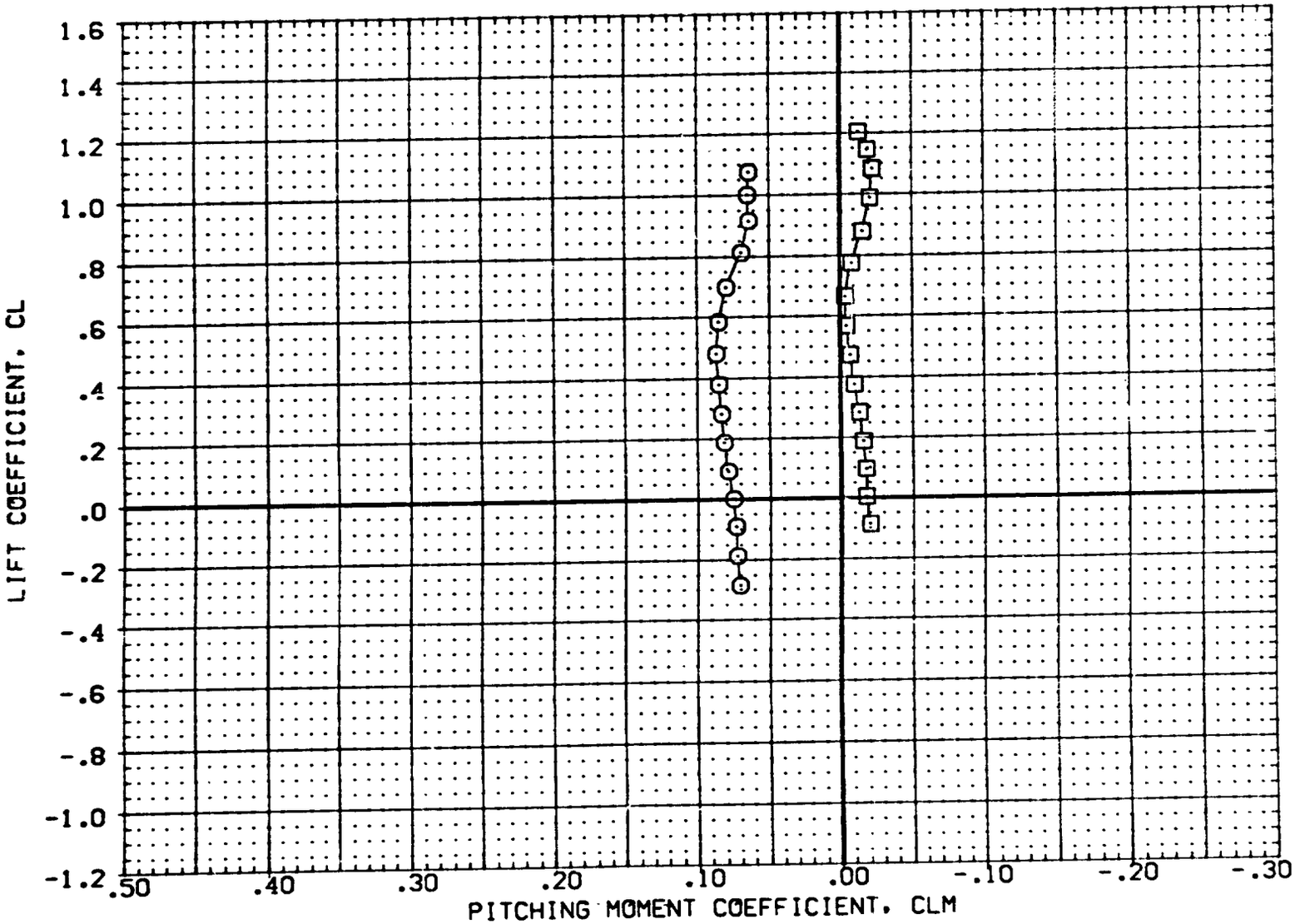


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ELEVON	AILRON	BOFLAP	SPOBRK
(DP144)	0A21	B17C7 H8 M4F5 V107E23V7R6X9	.000	.000	-18.000	55.000
(DP153)	0A21	B17C7 H8 M4F5 V107E21V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

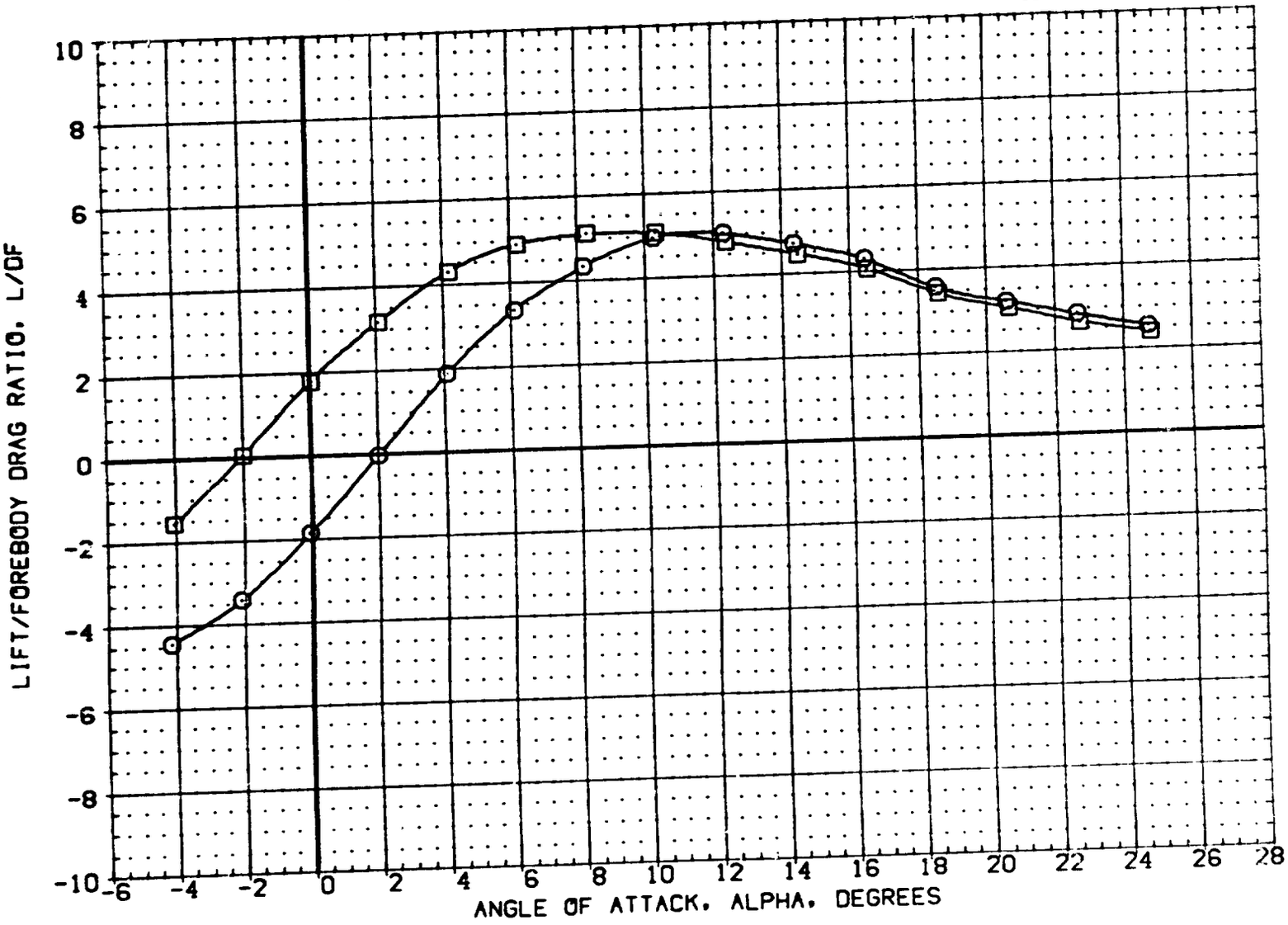


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IDP144)	☐	0A21 B17C7 H8 M4FS V107E23V7R6X9
(IDP150)	☐	0A21 B17C7 H8 M4FS V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2295	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

SET	SYMBOL	CONFIGURATION DESCRIPTION
44		0A21 B17C7 H8 M4F5 V107E23V7R6X9
53		0A21 B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

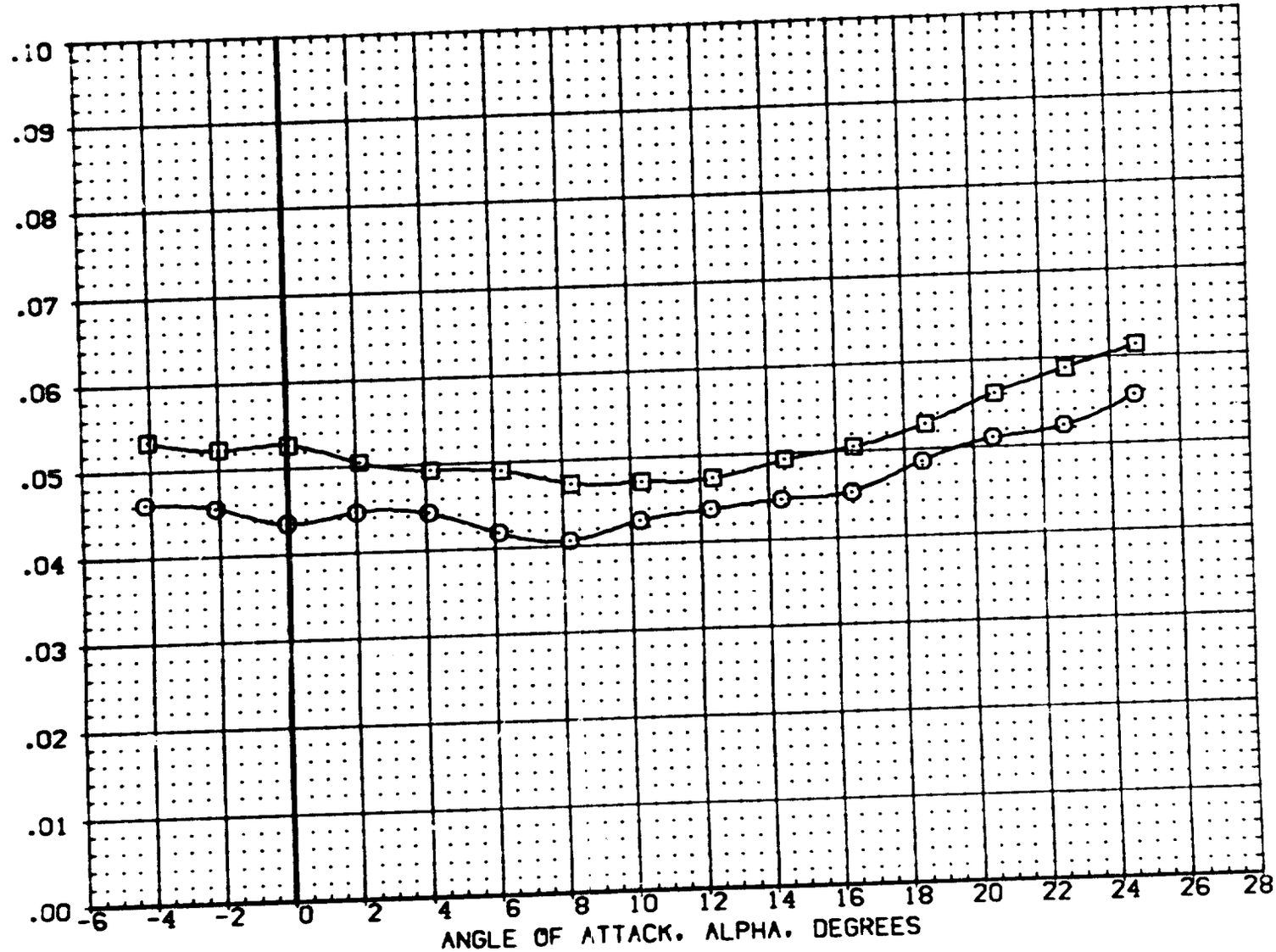


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
[IDP144]	○	0A21	B17C7 H8 M4F5 V107E23V7R6X9
[IDP153]	□	0A21	B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

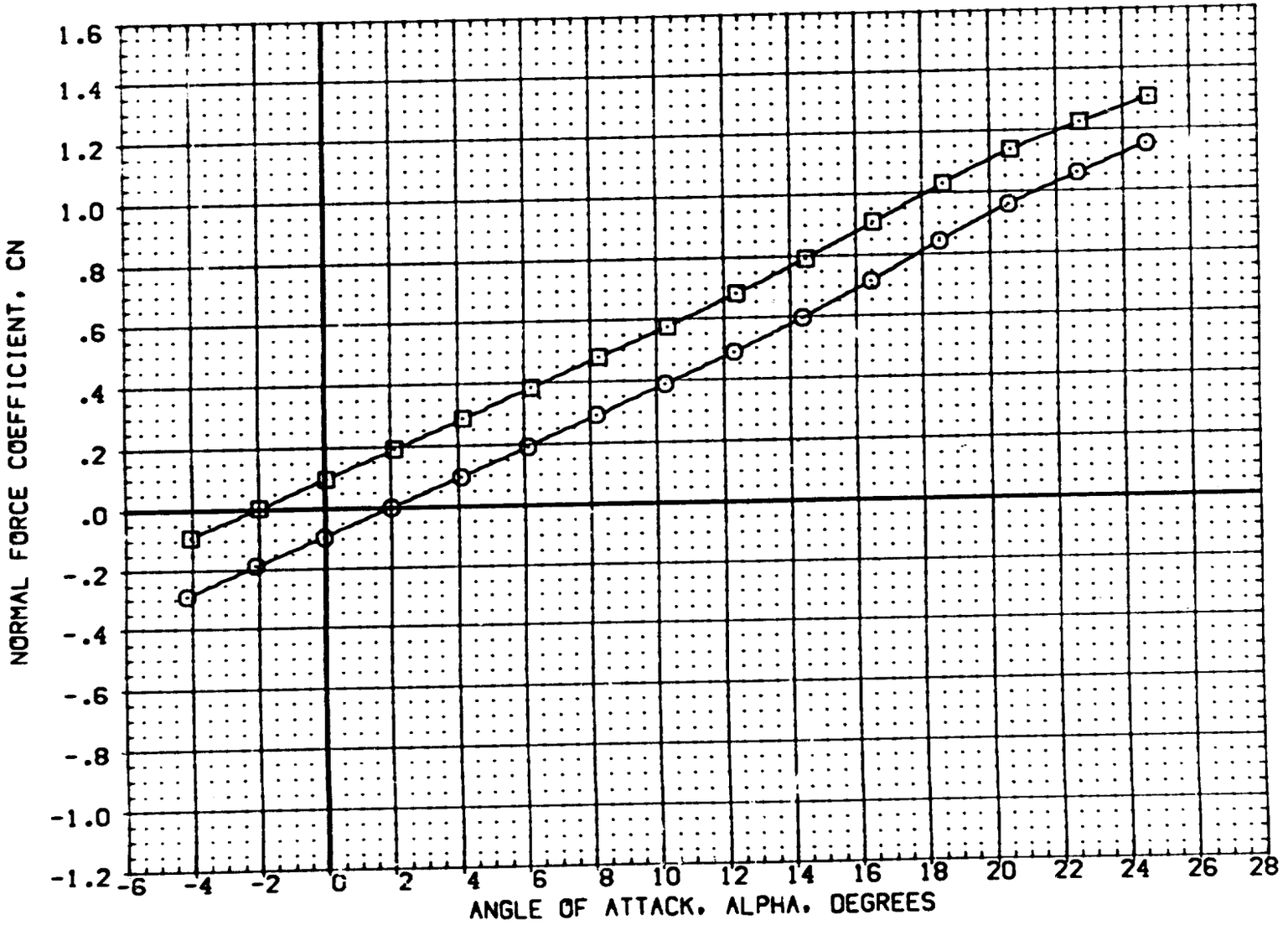


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
[IDP144]	○	0A21	B17C7 H8 M4F5 V107E23V7R6X9
[IDP153]	□	0A21	B17C7 H8 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPLBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

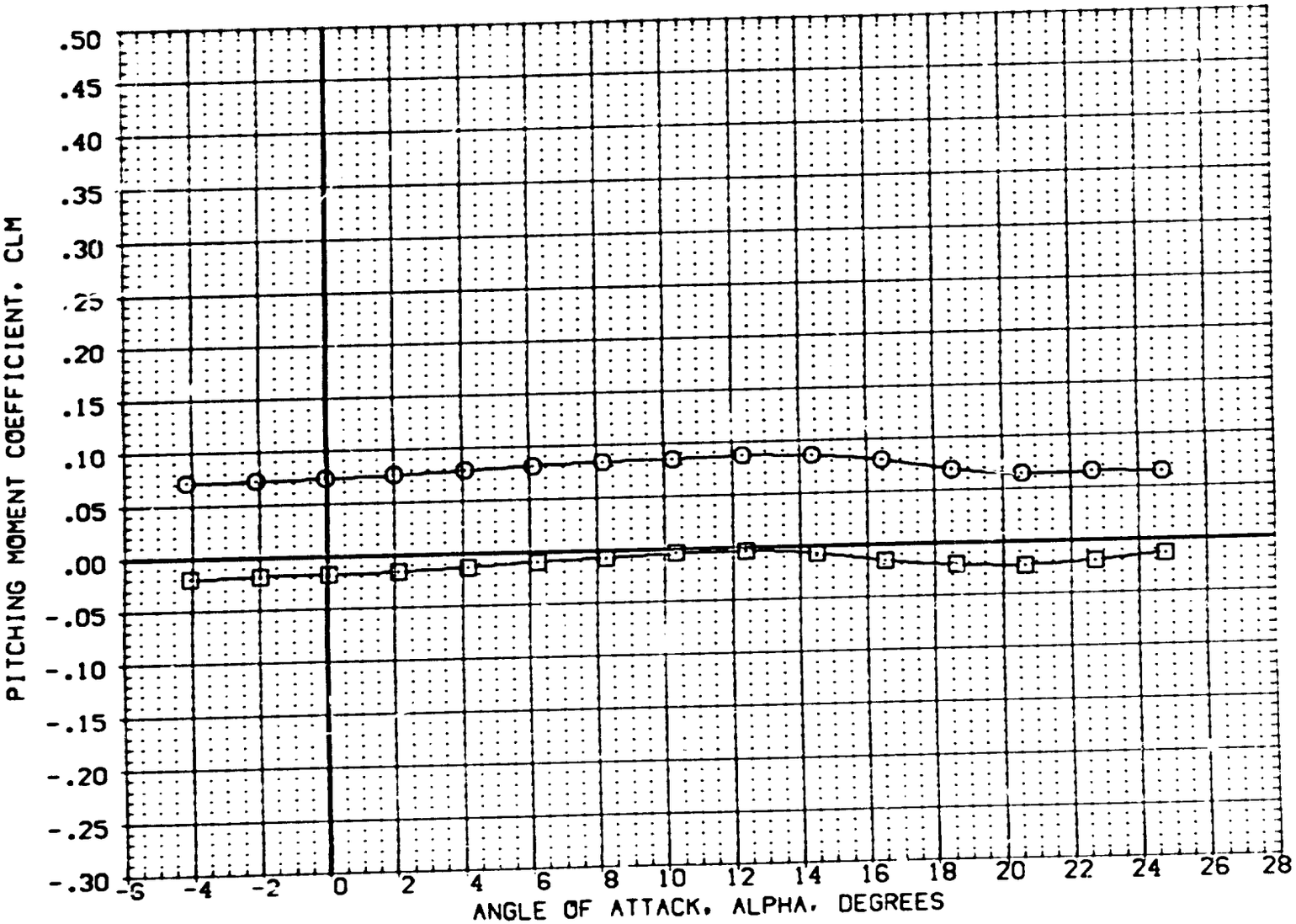


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP153) ○ 0A21 B17C7 H8 M4F5 V107E21V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

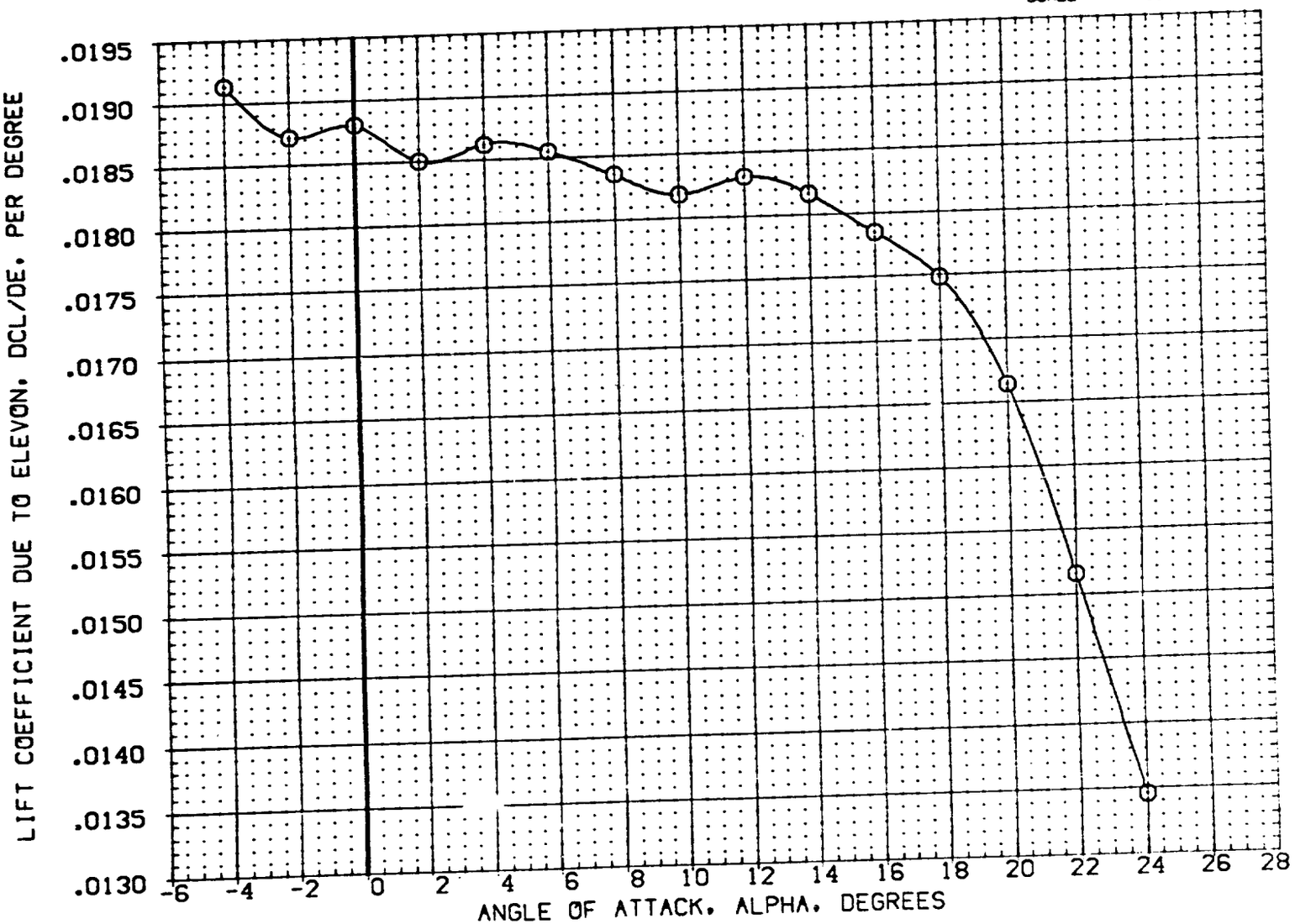


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP153) ○ 0A21 B17C7 H8 M4F5 V107E21V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

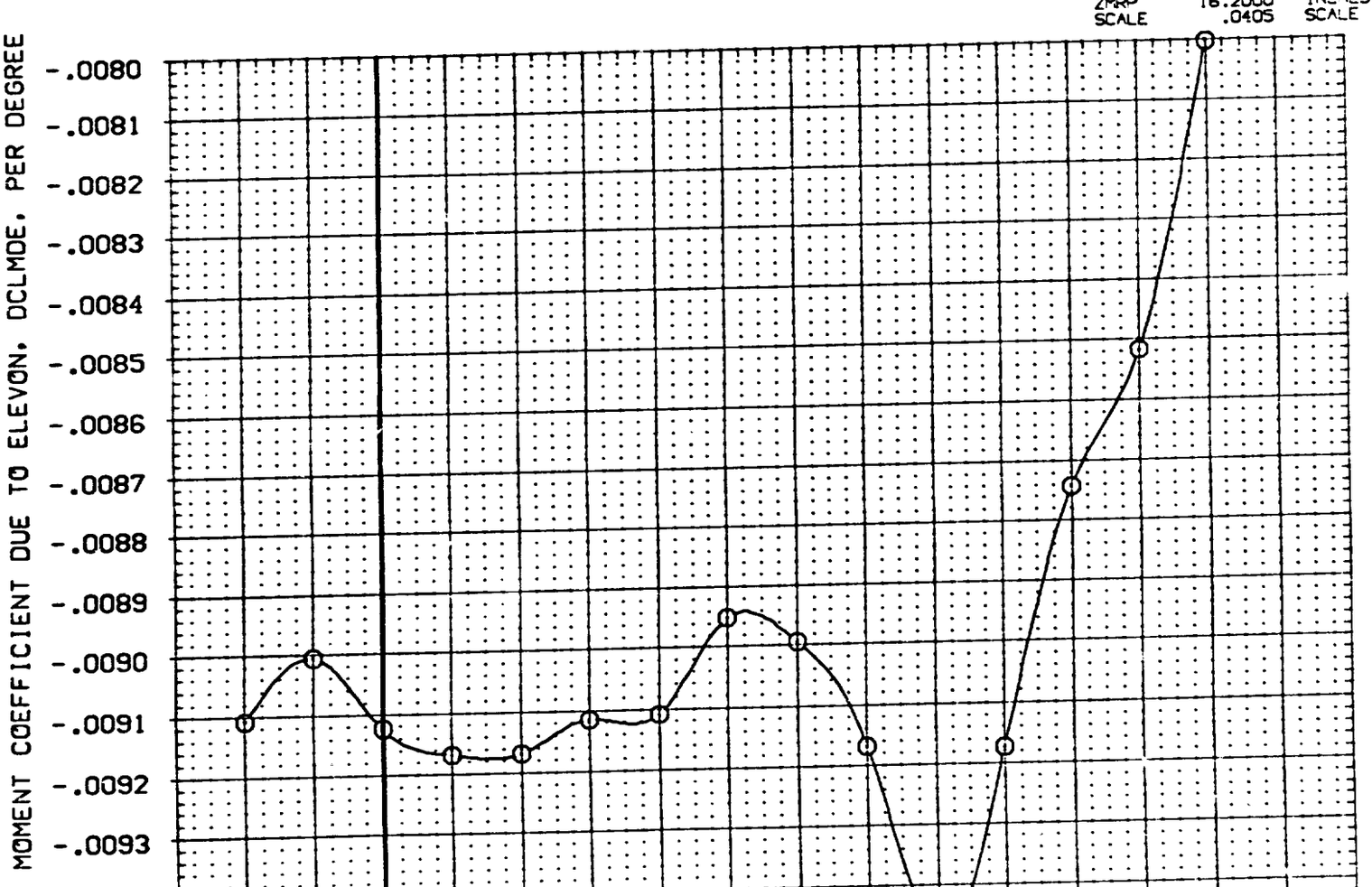


FIGURE 22 ELEVON EFFECTIVENESS WITH H8 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IDP145)	○	0A21 B17C7 H9 M4F5 V107E23V7R6X9
(IDP152)	□	0A21 B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

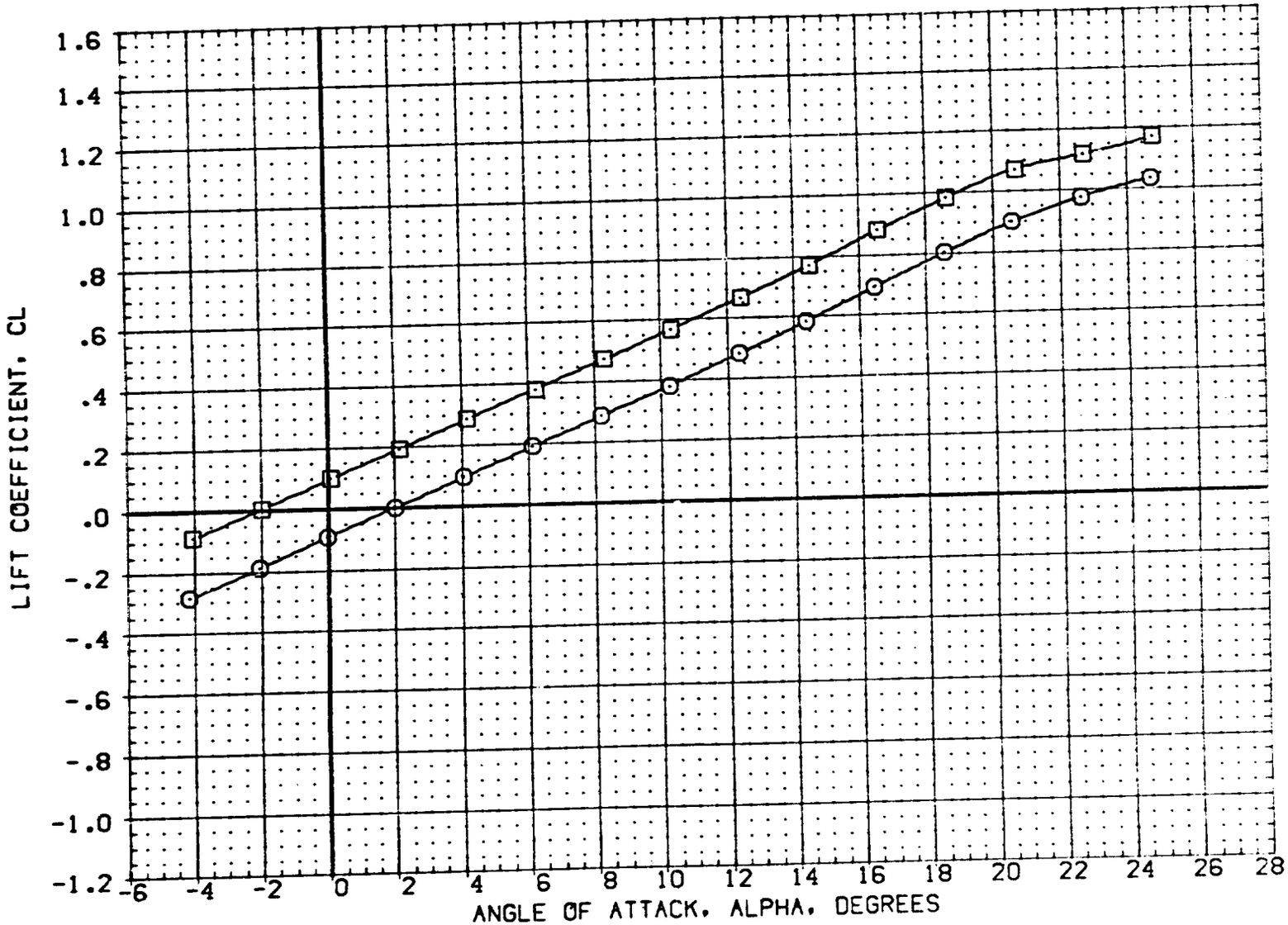


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
[DP145]	○	CA21	B17C7 H9 M4F5 W107E23V7R6X9
[DP152]	□	CA21	B17C7 H9 M4F5 W107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

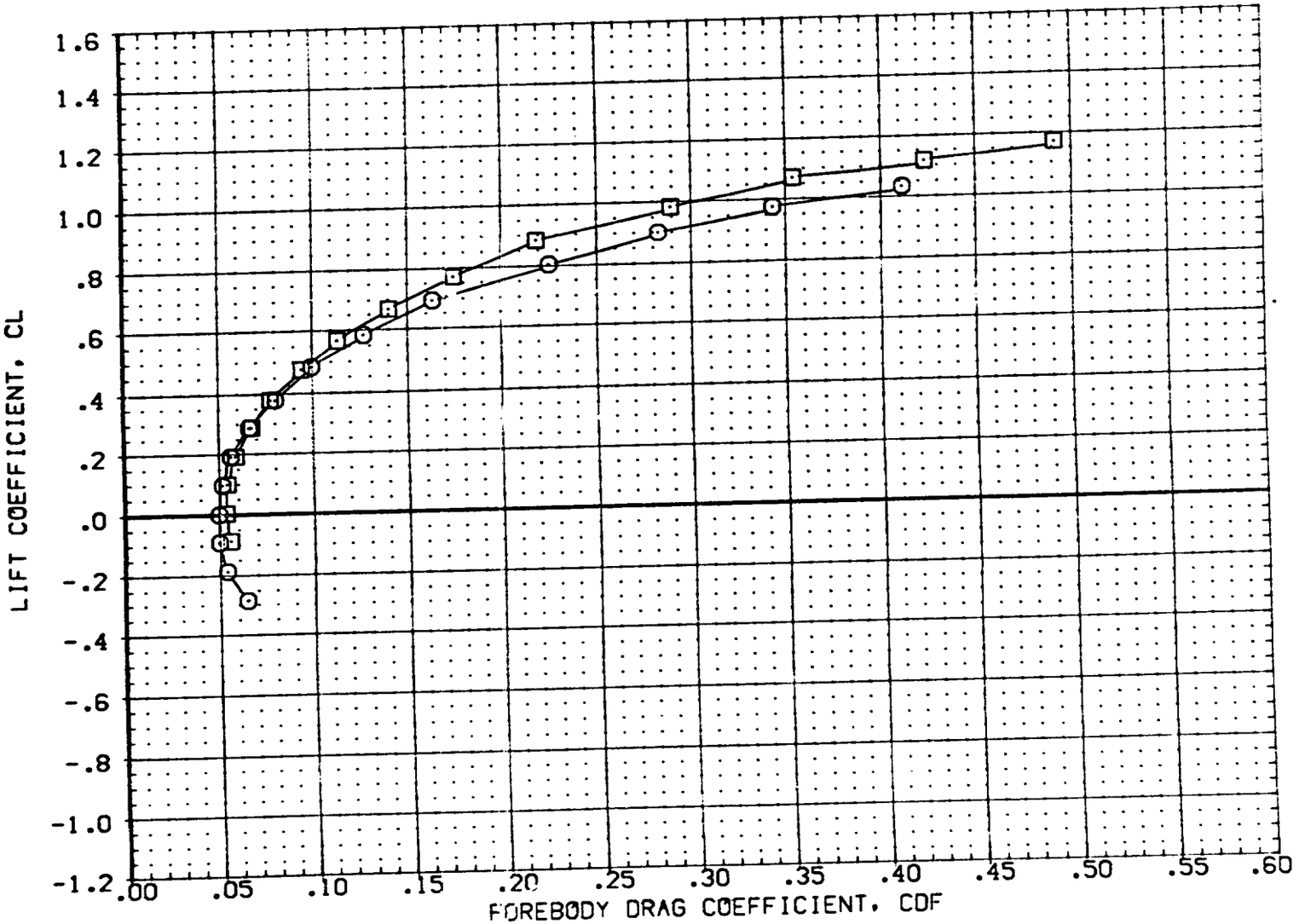


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
[IDP145]	○ 0A21	B17C7 H9 M4F5 V107E23V7R6X9
[IDP152]	□ 0A21	B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

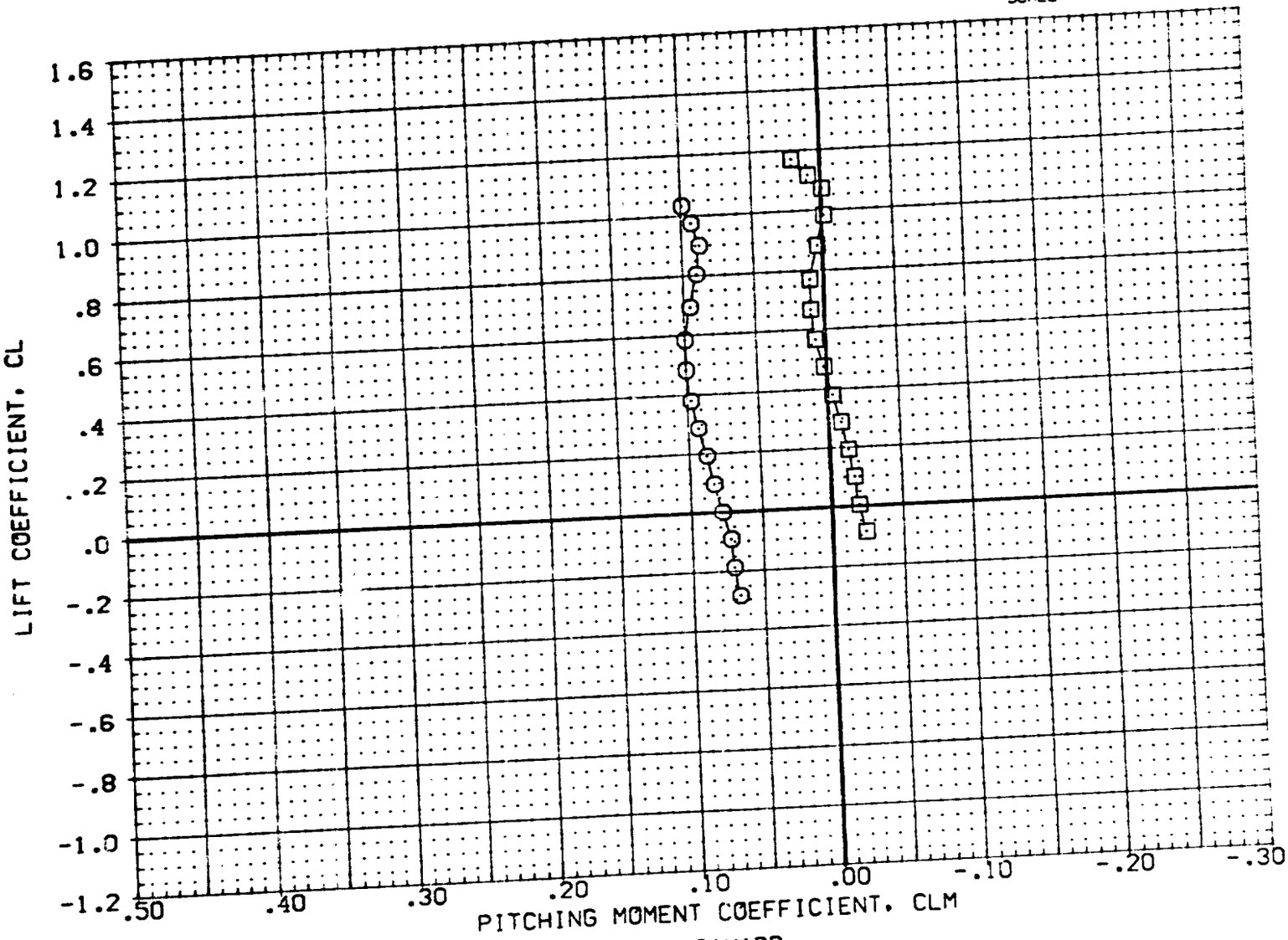


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

[A]MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[IDP145]	○	BA21 B17C7 H9 M4F5 V107E23V7R6X9
[IDP152]	□	BA21 B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

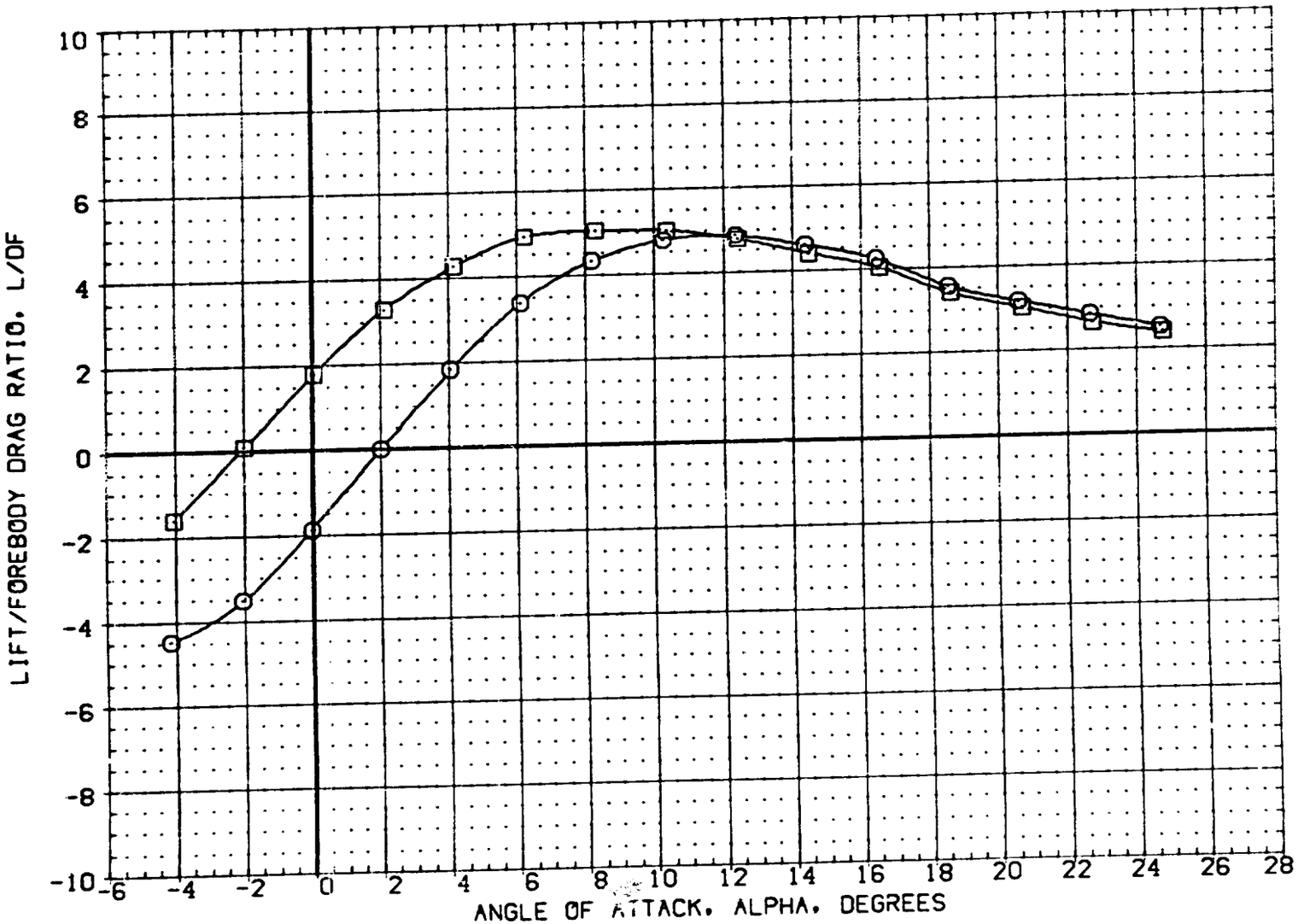


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
[IDP145]	○	0A21	B17C7 H9 M4F5 V107E23V7R6X9
[IDP152]	□	0A21	B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.04C5	SCALE

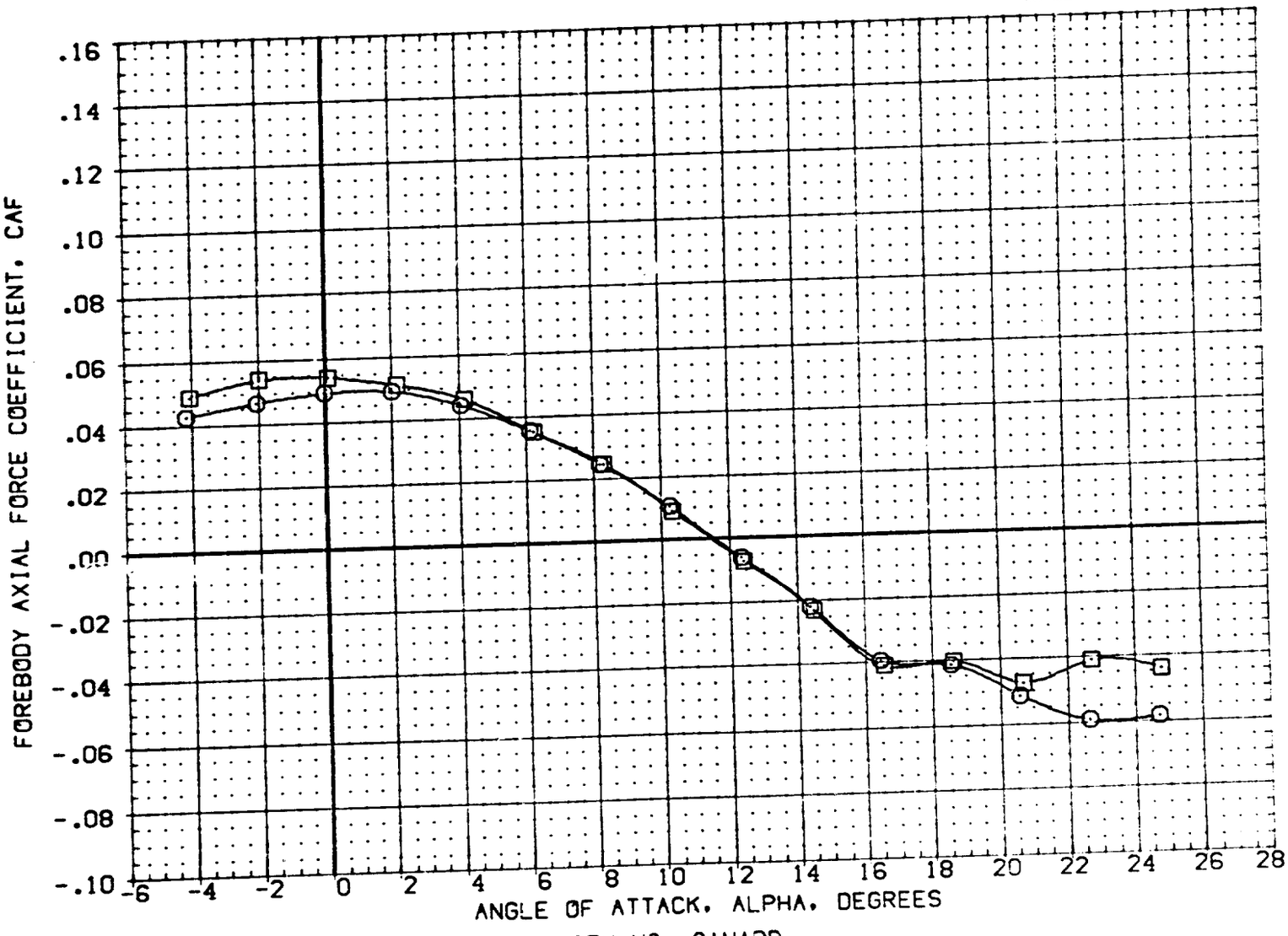


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
[IDP145]	○	0A21 B17C7 H9 M4F5 V107E23V7R6X9
[IDP152]	□	0A21 B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

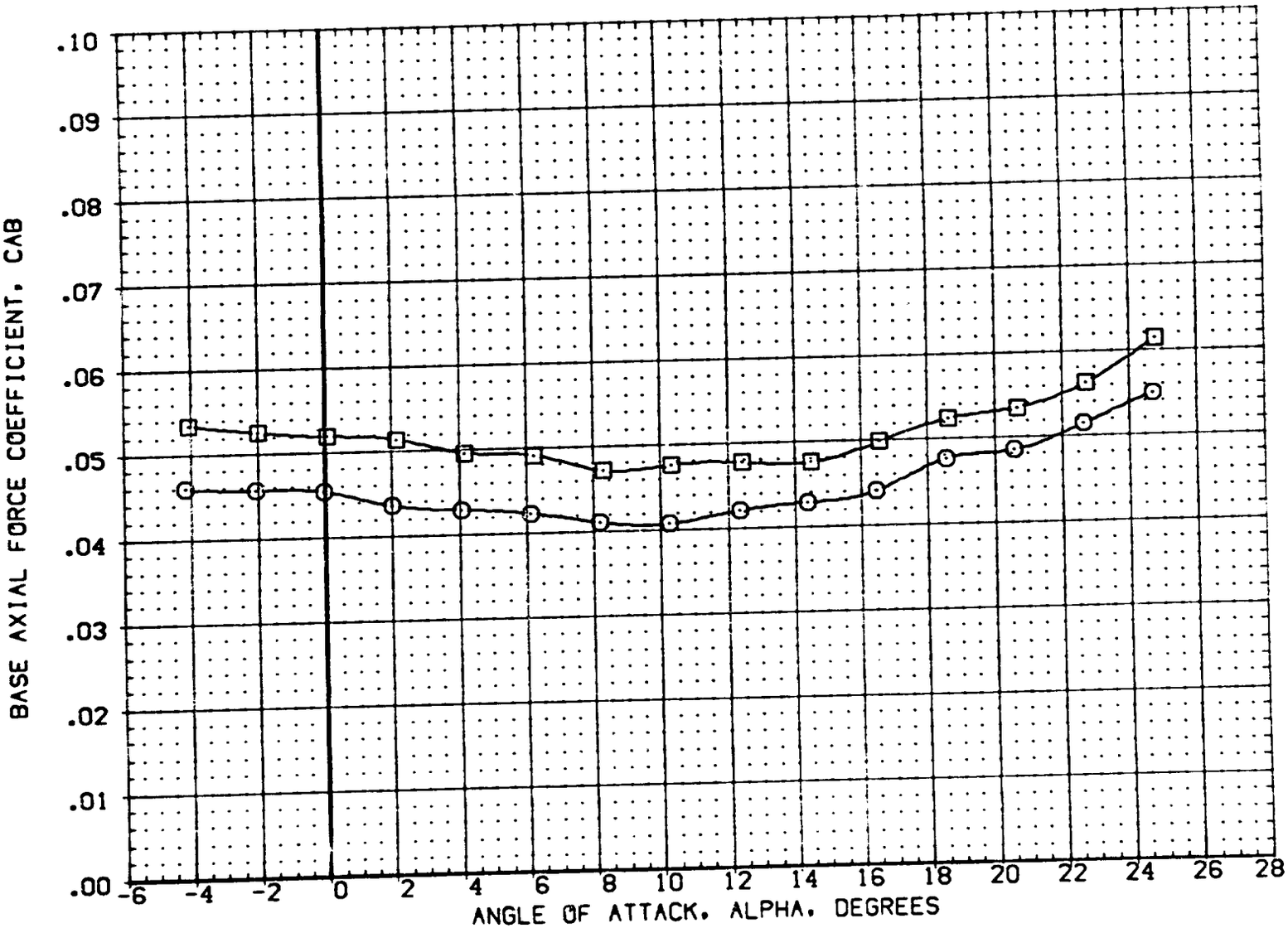


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	
(IDP145)	○	0A21	B17C7 H9 M4F5 V107E23V7R6X9
(IDP152)	□	0A21	B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

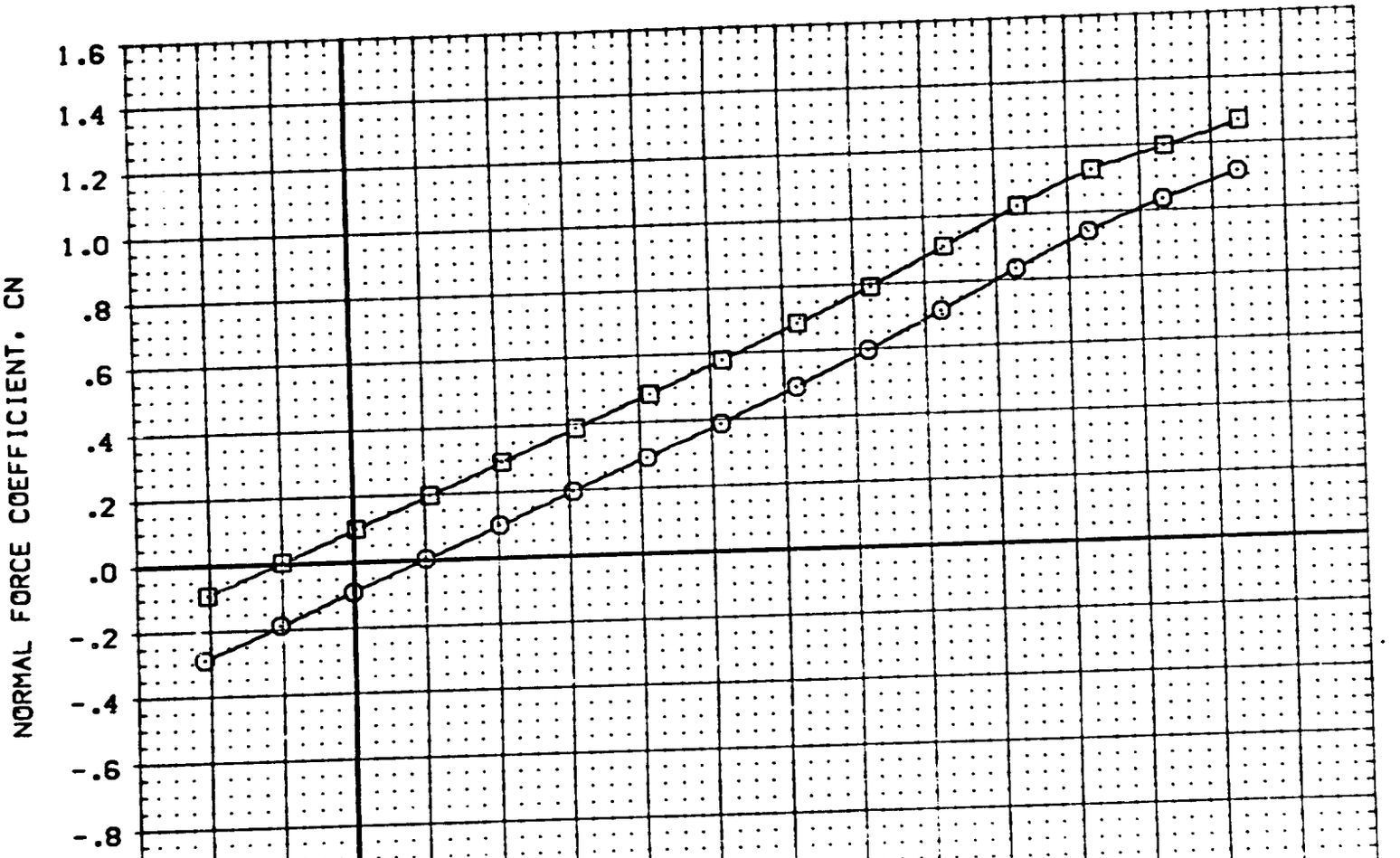


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

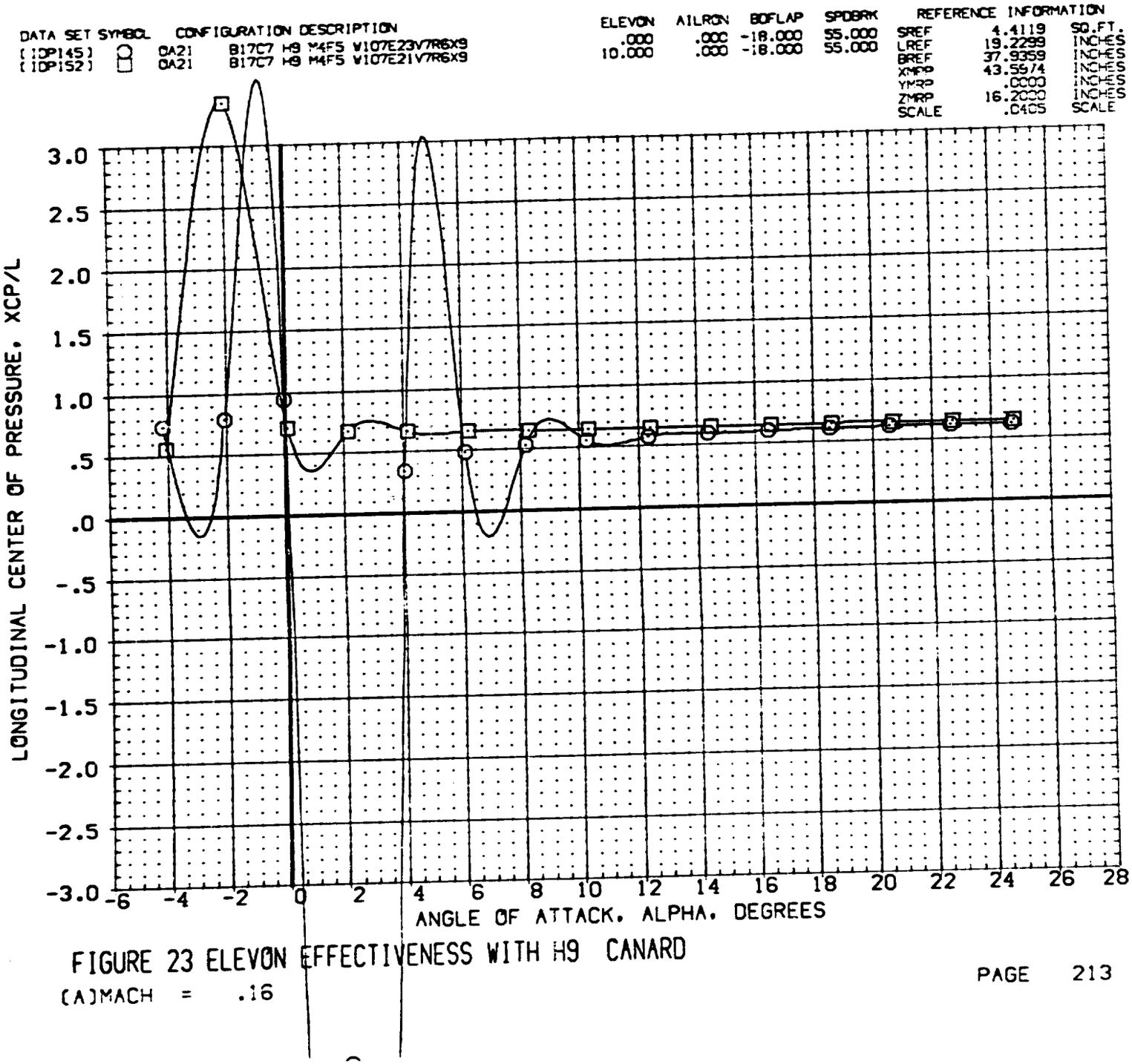


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(IDP145)	○	0A21	B17C7 H9 M4F5 V107E23V7R6X9
(IDP152)	□	0A21	B17C7 H9 M4F5 V107E21V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

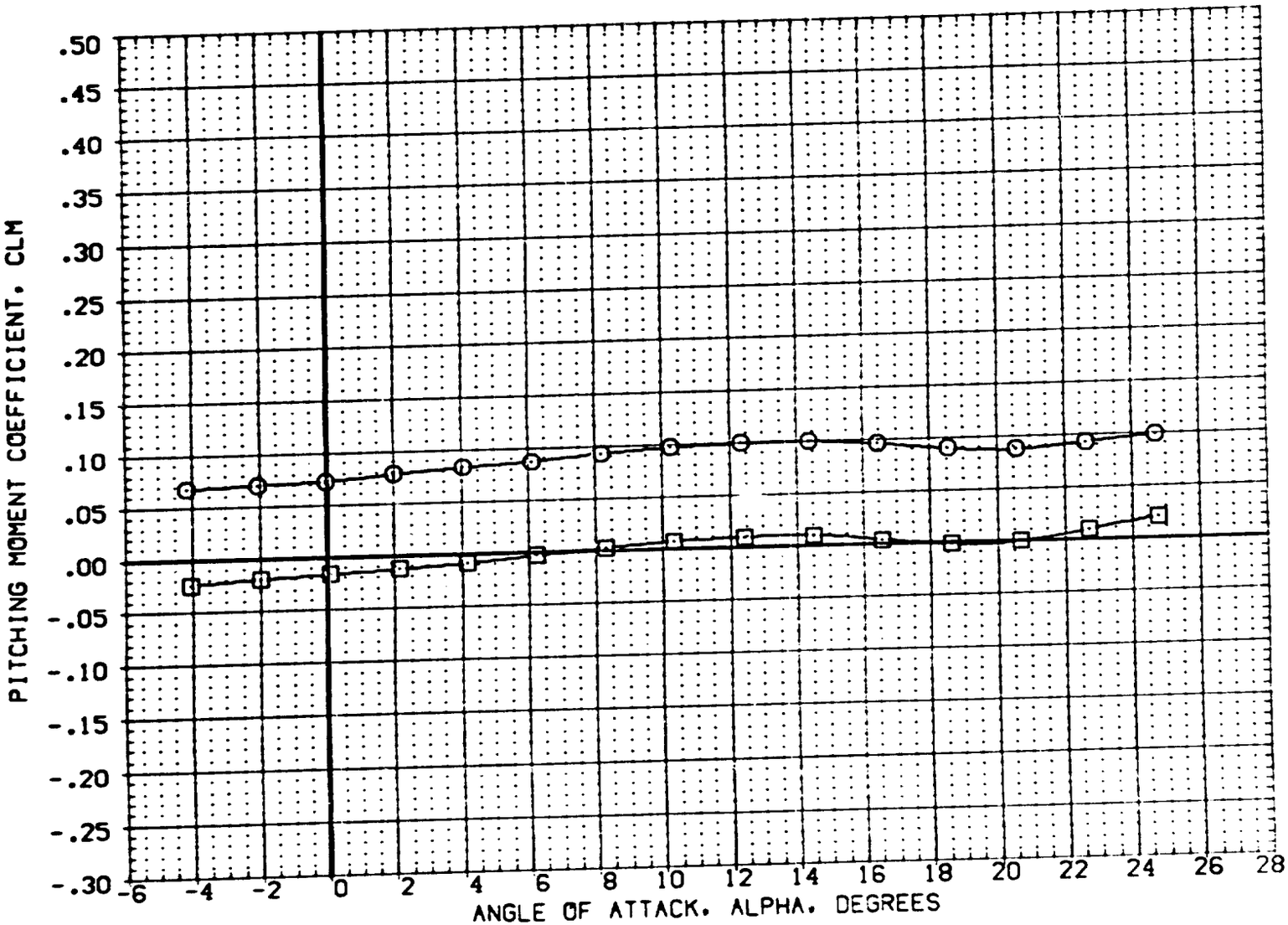


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(DDP152) ○ DA21 B17C7 H9 M4F5 V107E21V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

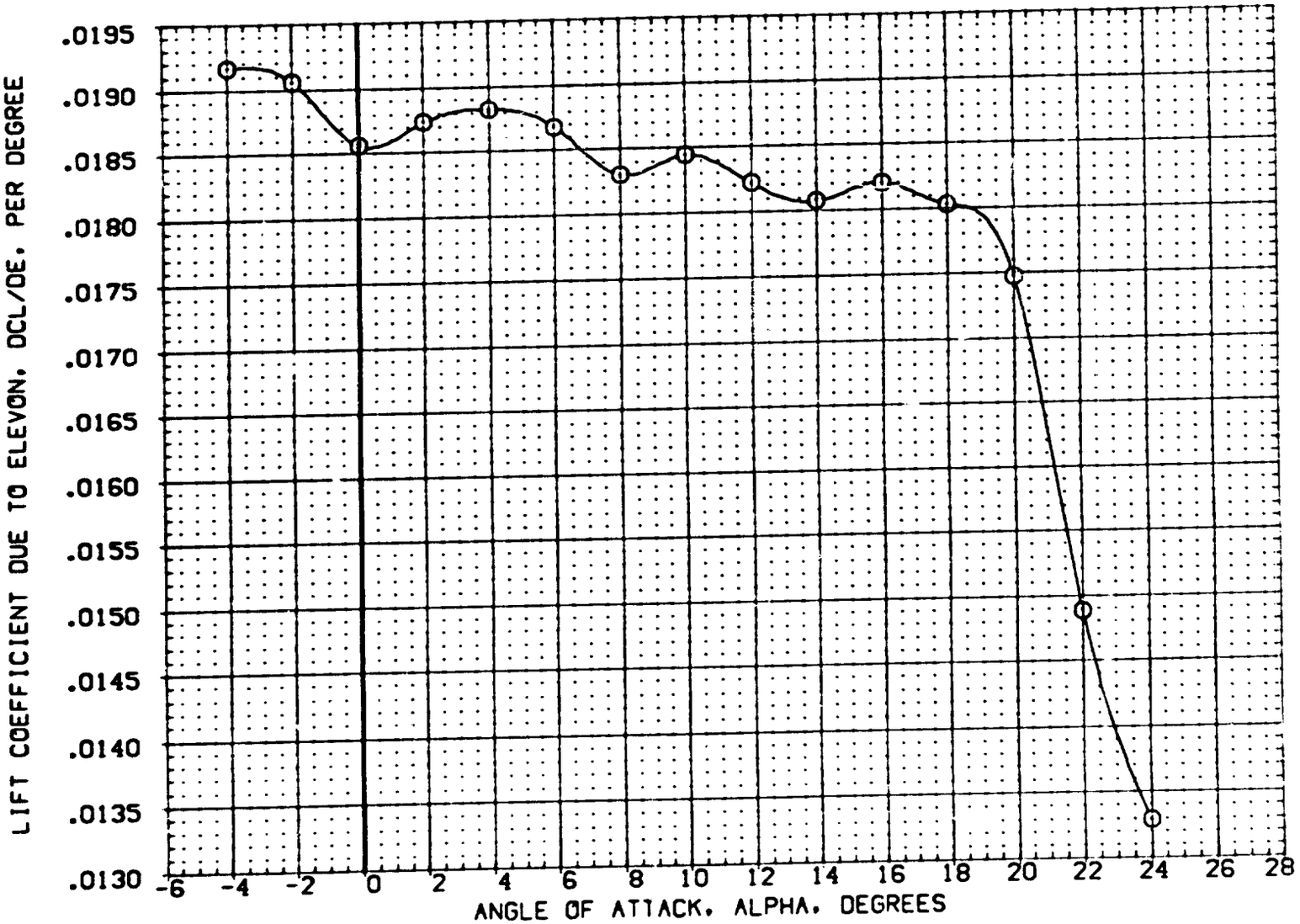


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(COP152) O 0A21 B17C7 H9 M4F5 V107E21V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE

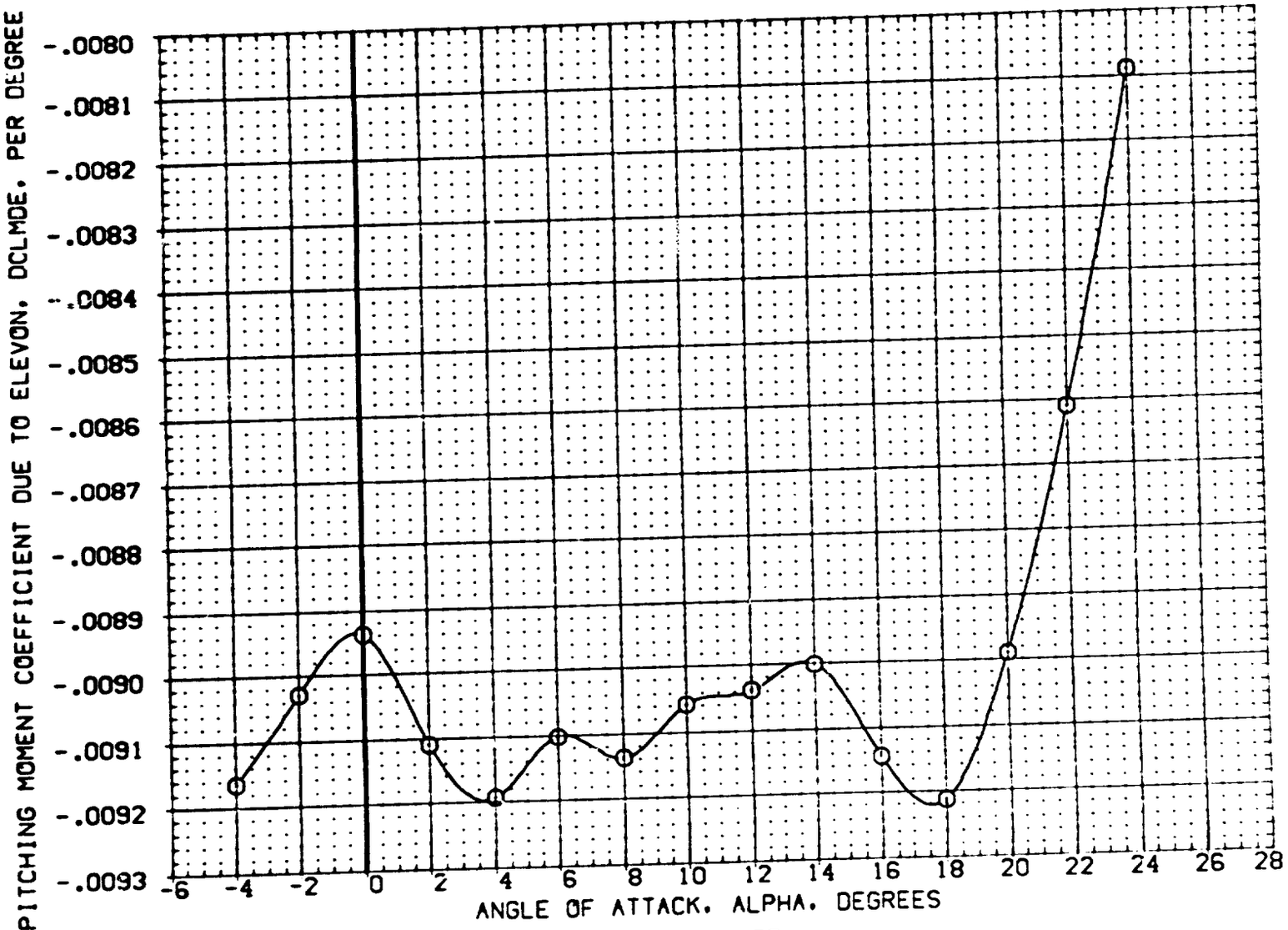


FIGURE 23 ELEVON EFFECTIVENESS WITH H9 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[IDP160]	○	OA21	B17C7H10M4F5	V107E23V7R6X9
[IDP157]	□	OA21	B17C7H10M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

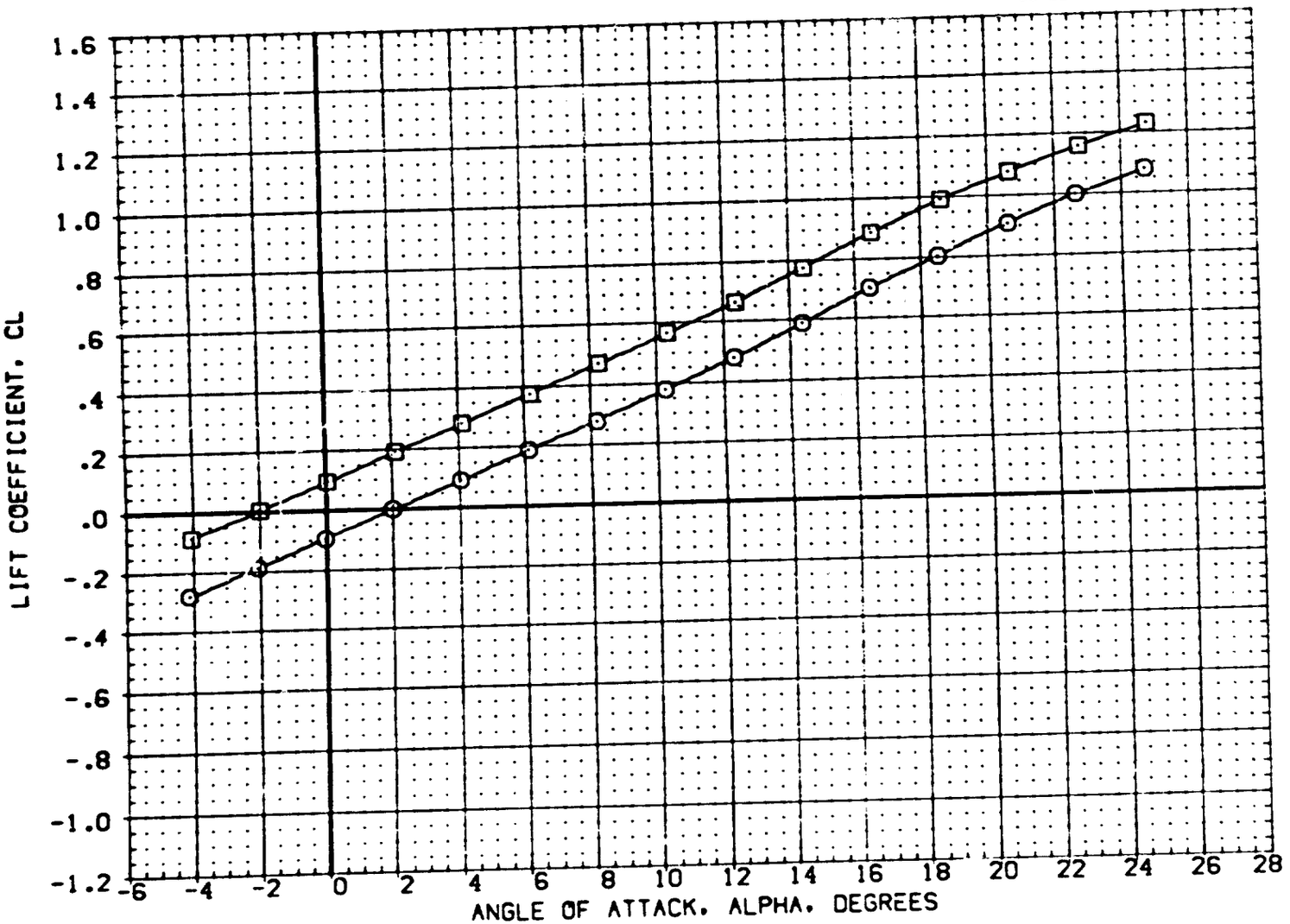


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(10P160)	○	0A21	B17C7H10M4F5	V107E23V7R6X9
(10P157)	□	0A21	B17C7H10M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

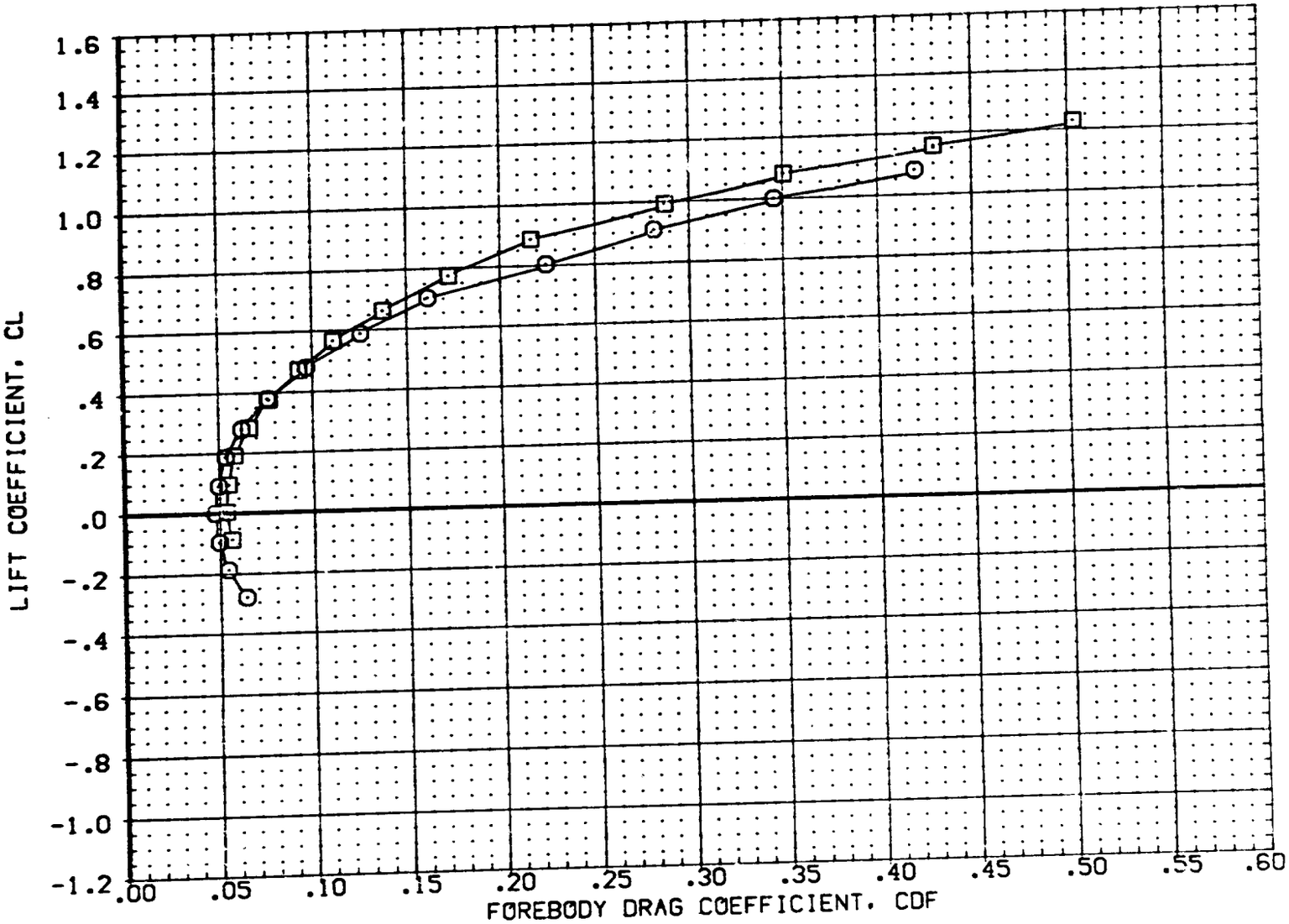


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[DP160]	○	0A21	B17C7H10M4F5	V107E23V7R6X9
[DP157]	□	0A21	B17C7H10M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

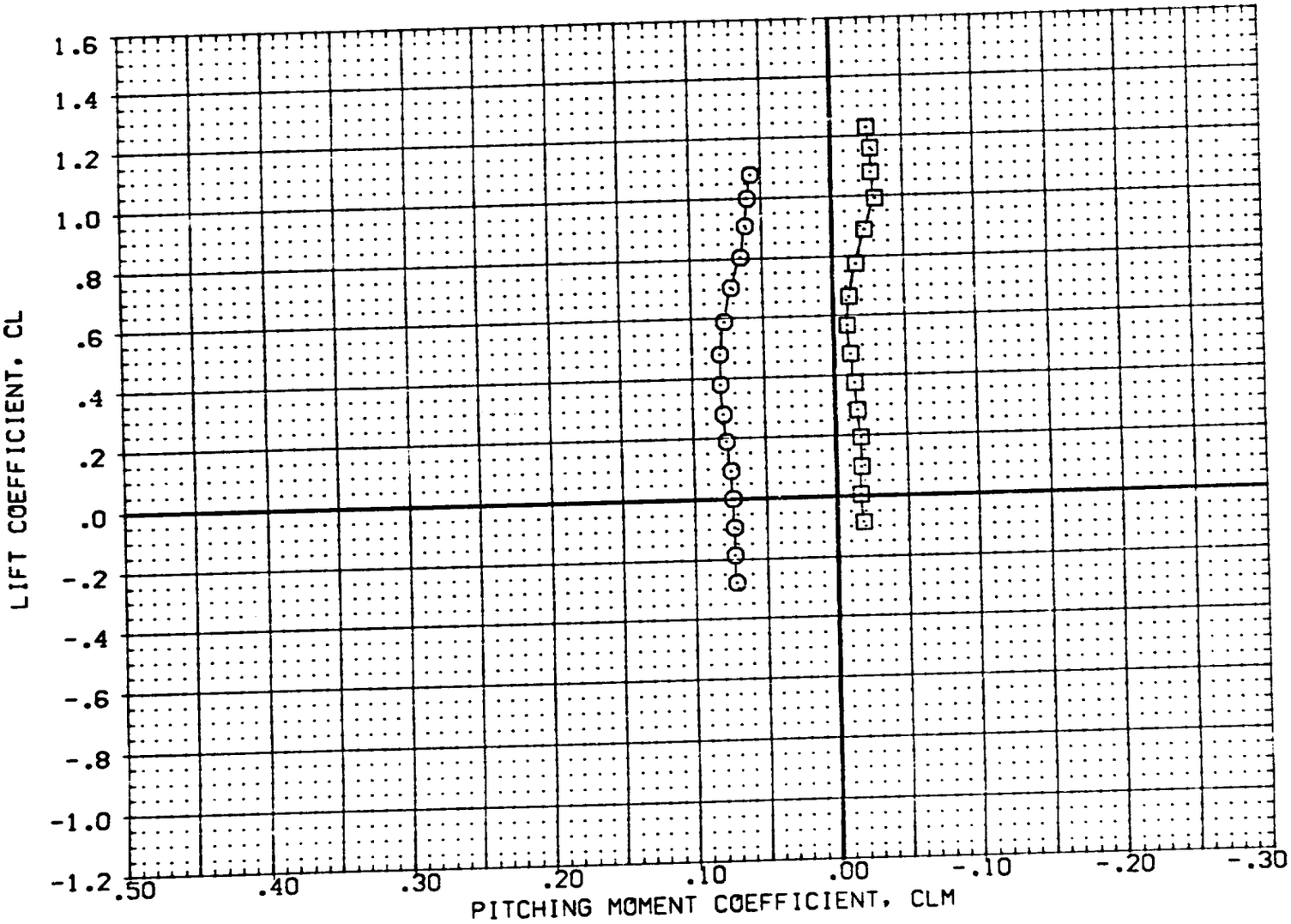


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP160)	○	0A21	B17C7H10M4F5	W107E23V7R6X9
(IDP157)	□	0A21	B17C7H10M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

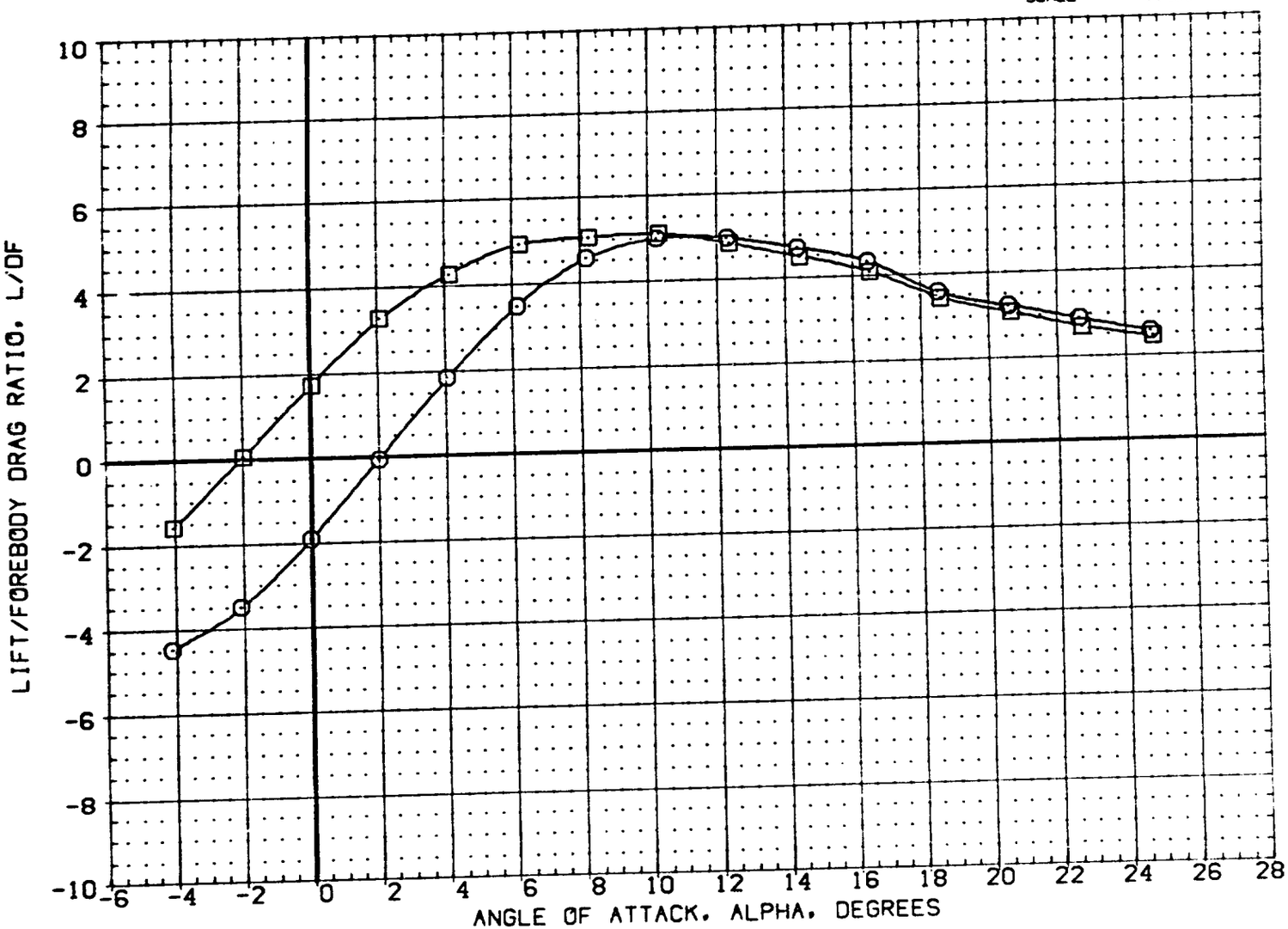


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
[IDP160]	○	0A21	B17C7H10M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
[IDP157]	□	0A21	B17C7H10M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

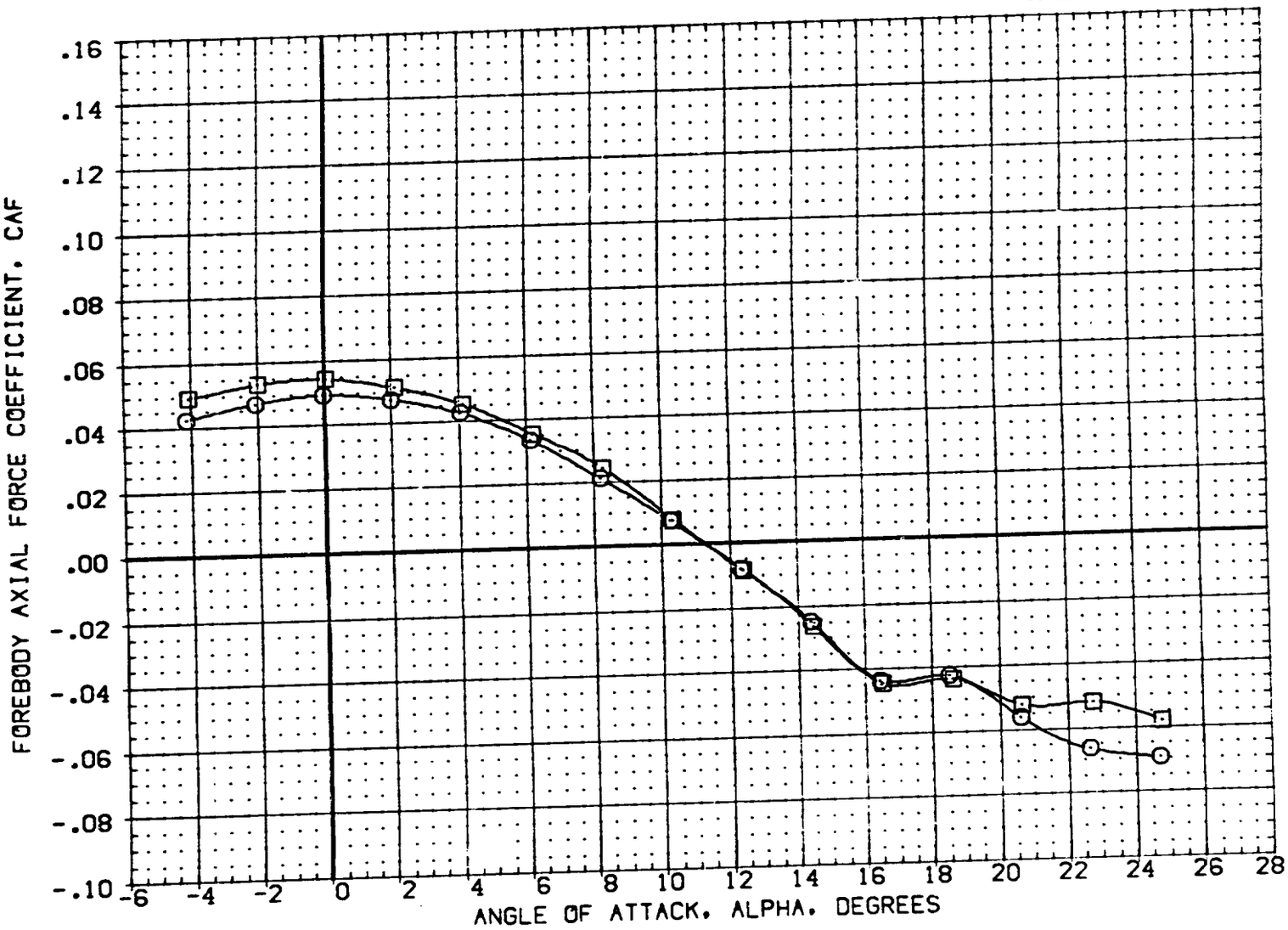


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[ID=160]	0A21	B17C7H10M4FS	W107E23V7R6X9	
[ID=157]	0A21	B17C7H10M4FS	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

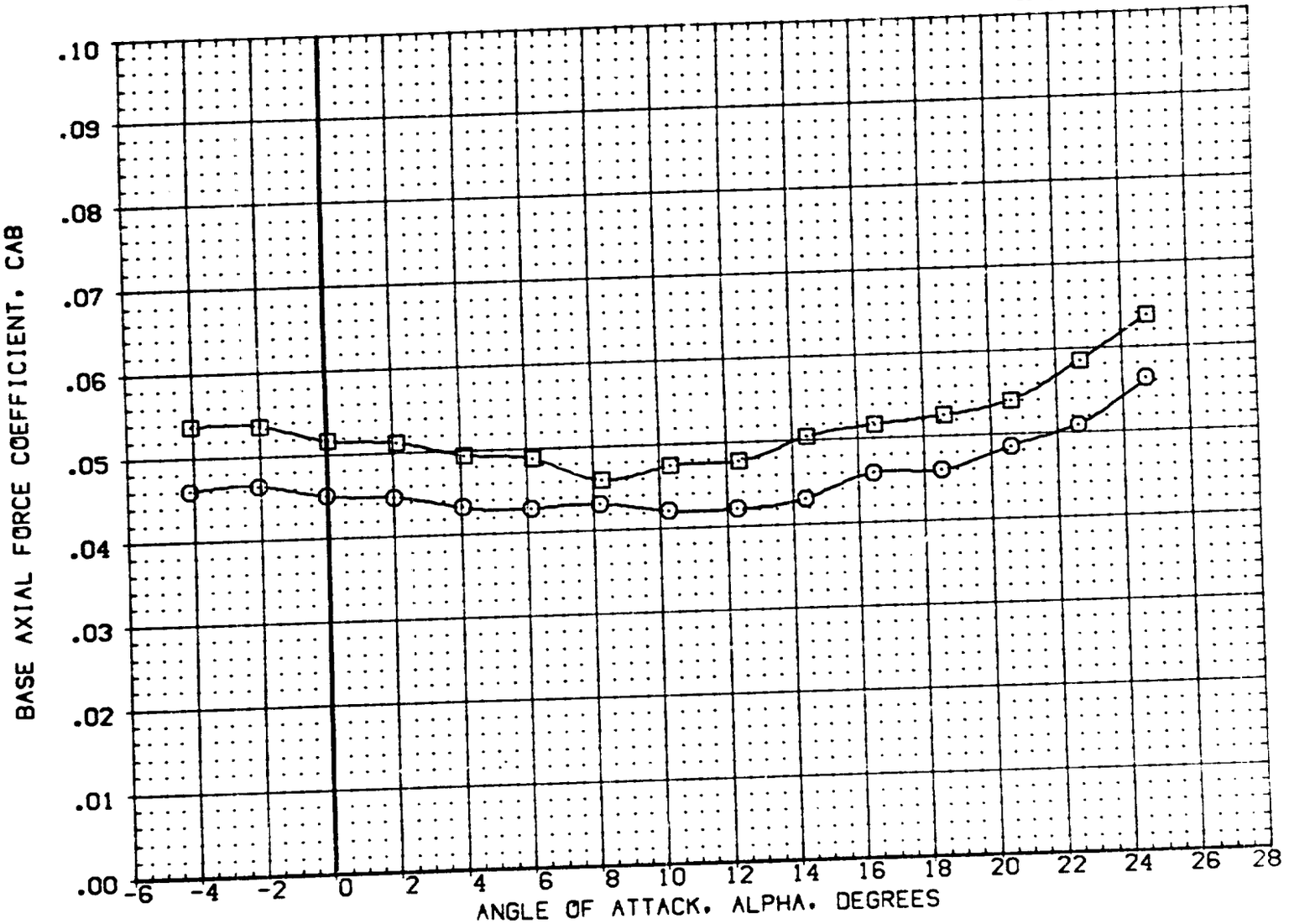


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[ ]DP[60]	○	CA21	B17C7H1OM4FS	W107E23V7R6X9
[ ]DP[57]	□	CA21	B17C7H1CM4FS	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

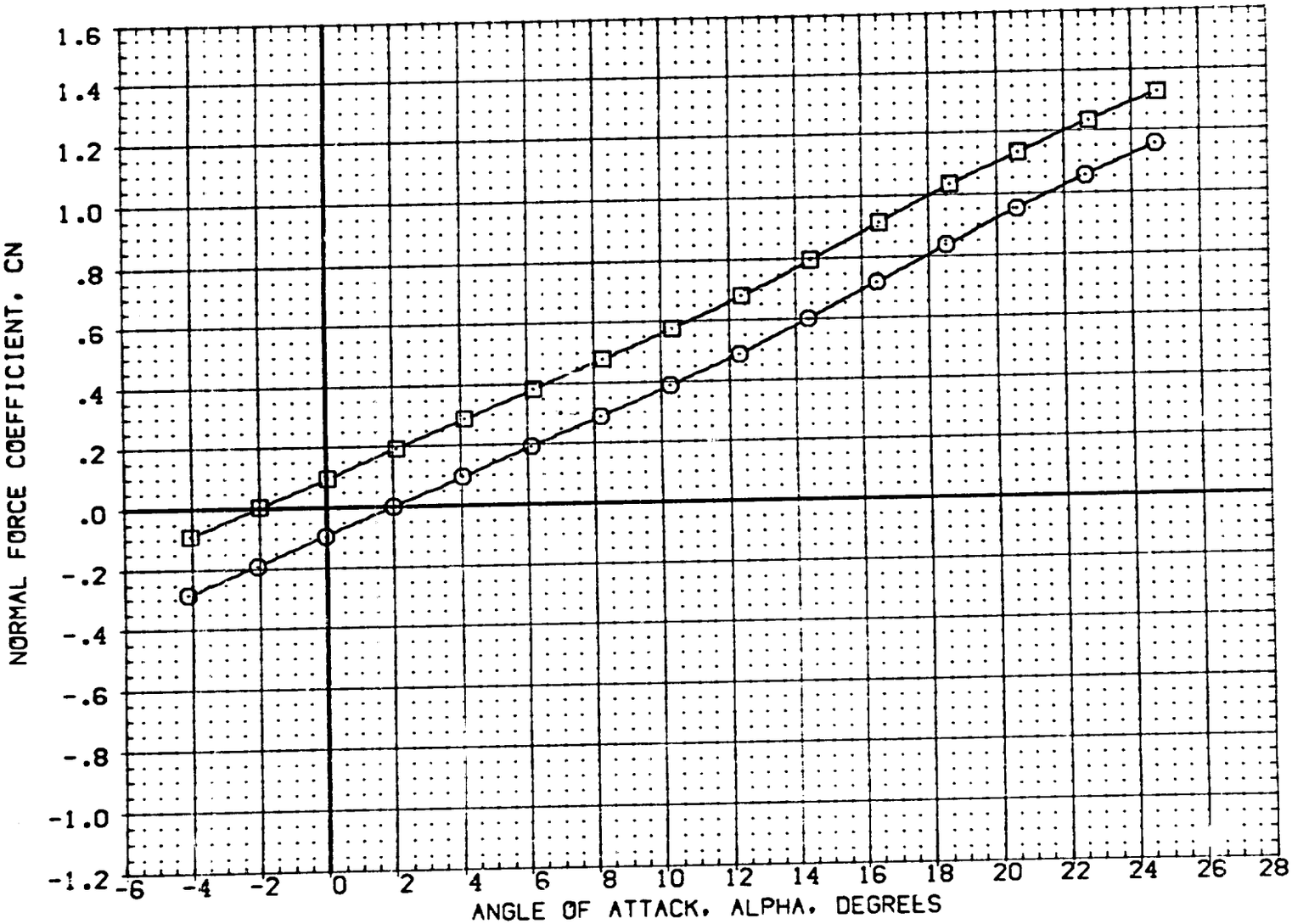


FIGURE 24 ELEVON EFFECTIVENESS WITH H1O CANARD

(A)MACH = .16

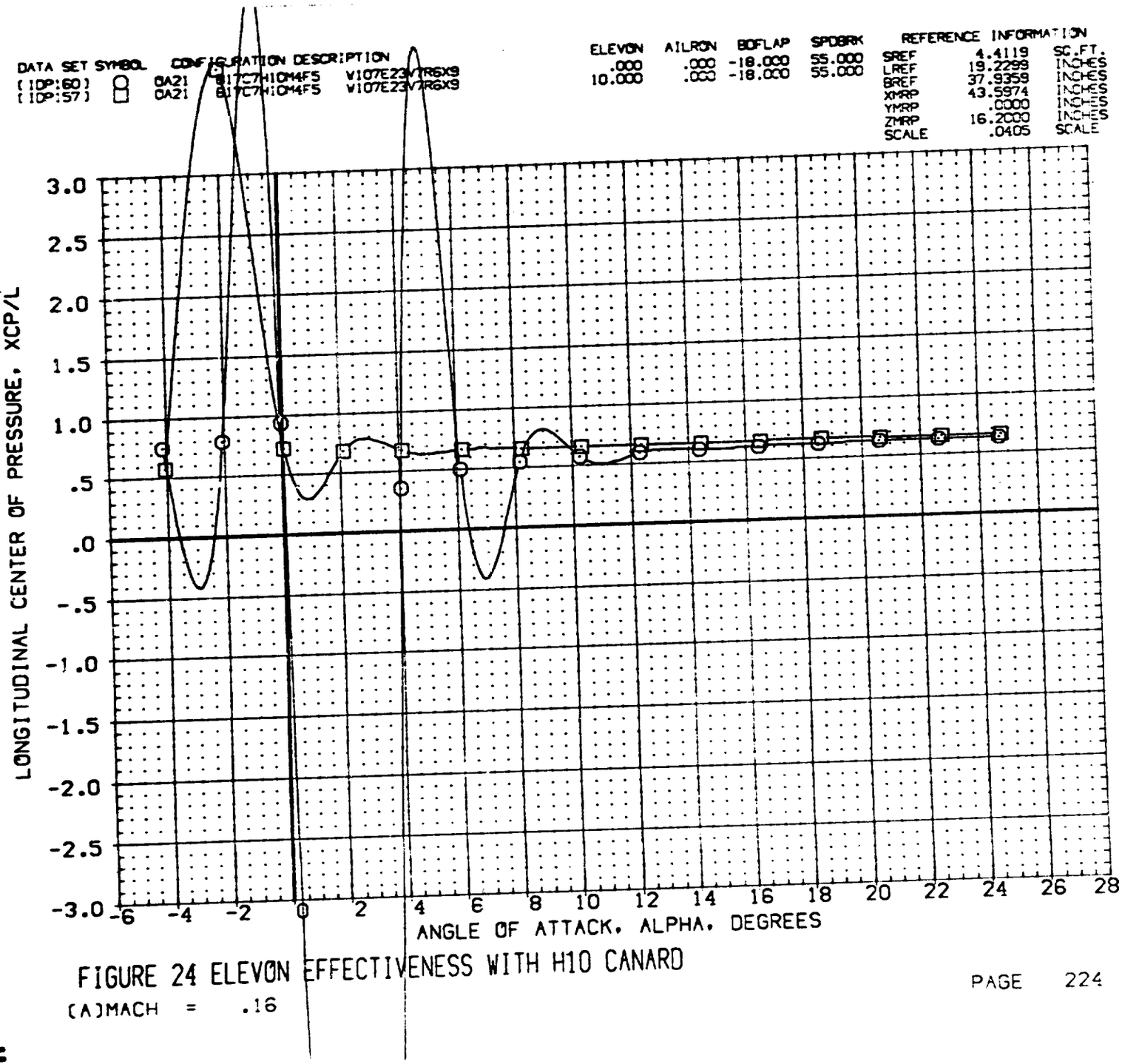


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[ID:160]	○	DA21	B17C7H10M4F5	W107E23V7R6X9
[ID:157]	□	DA21	B17C7H10M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

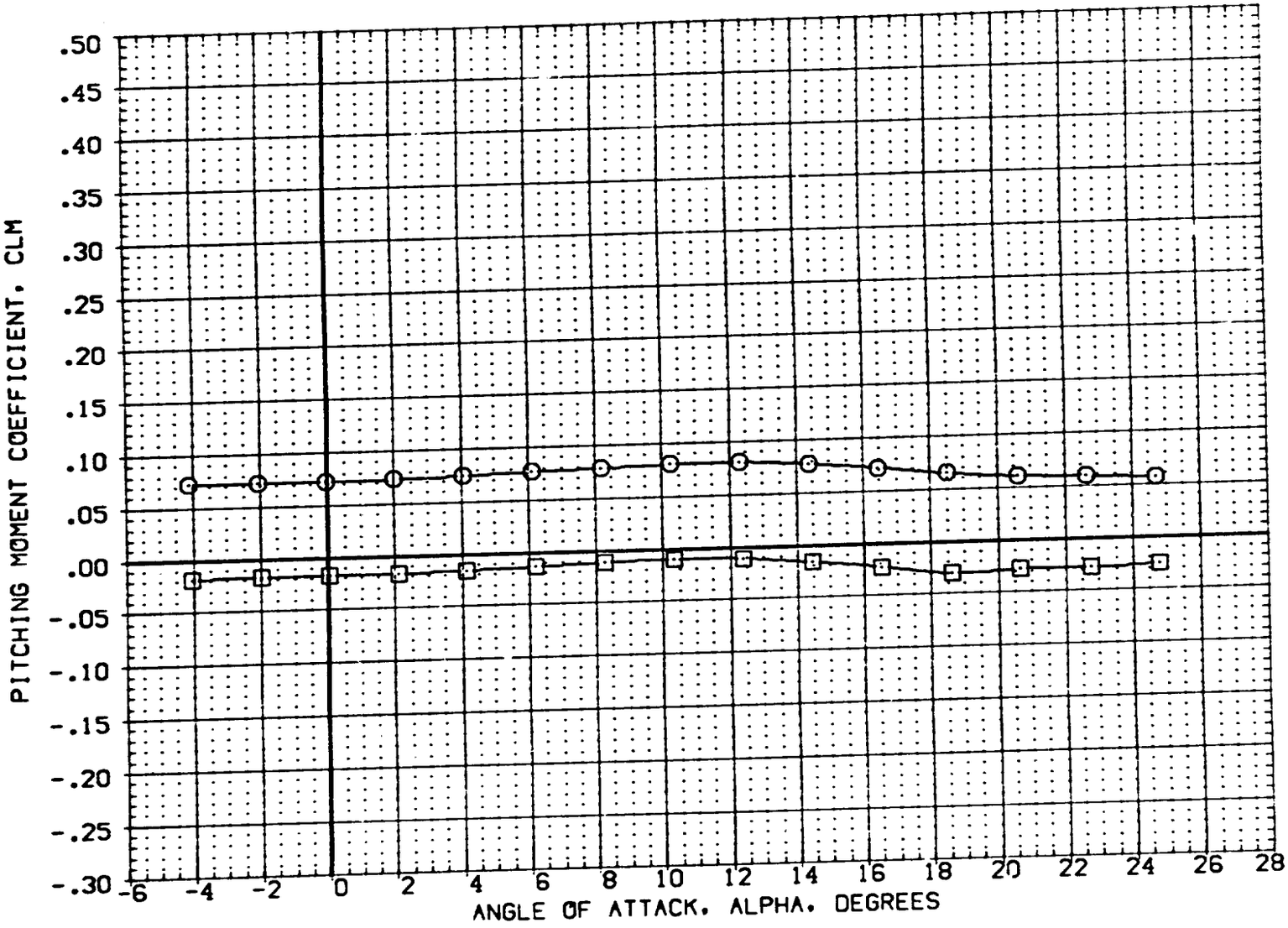


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP157) ○ 0A21 B17C7H10M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

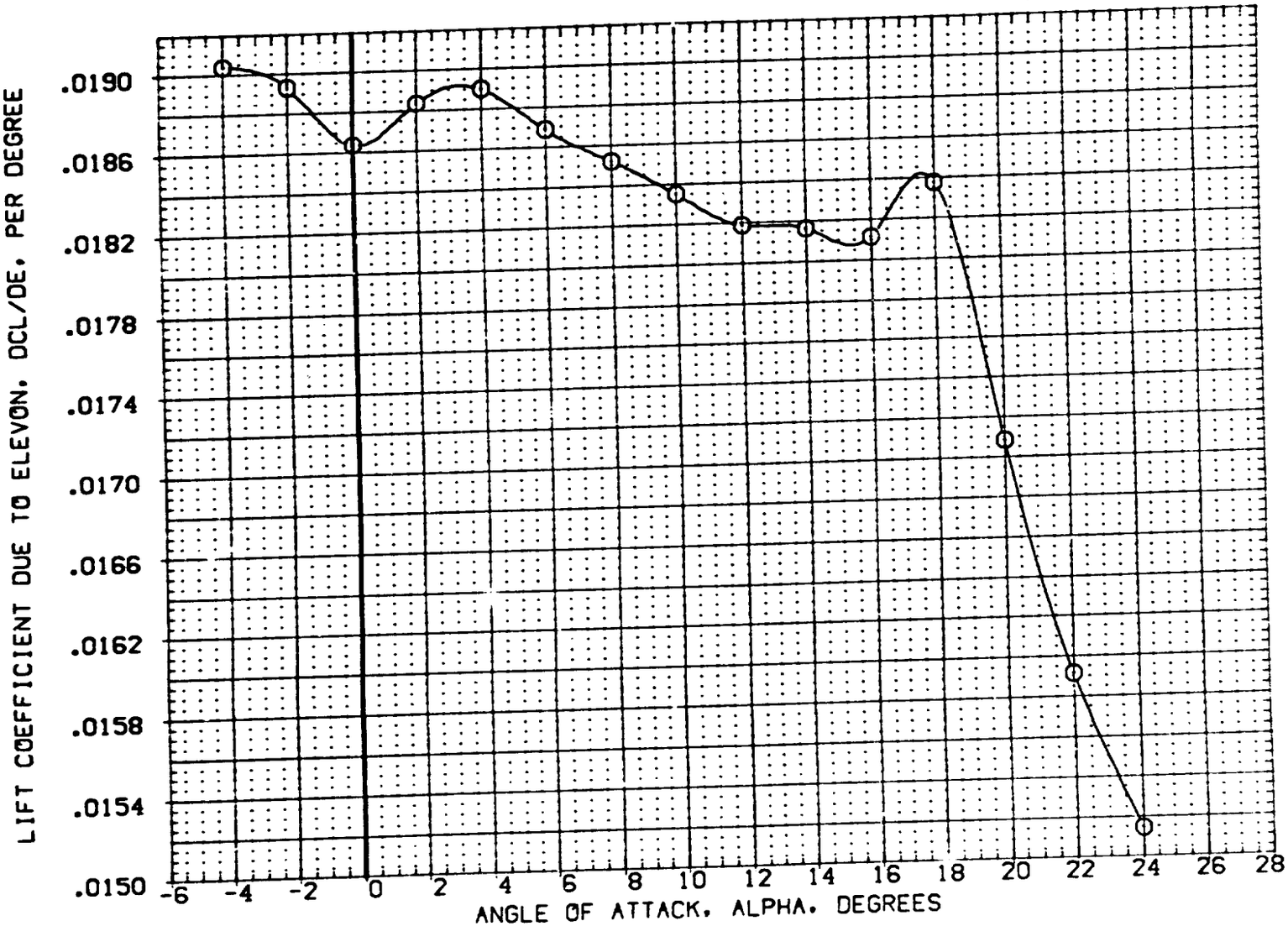


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP157) ○ 0A21 B17C7H1C44F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

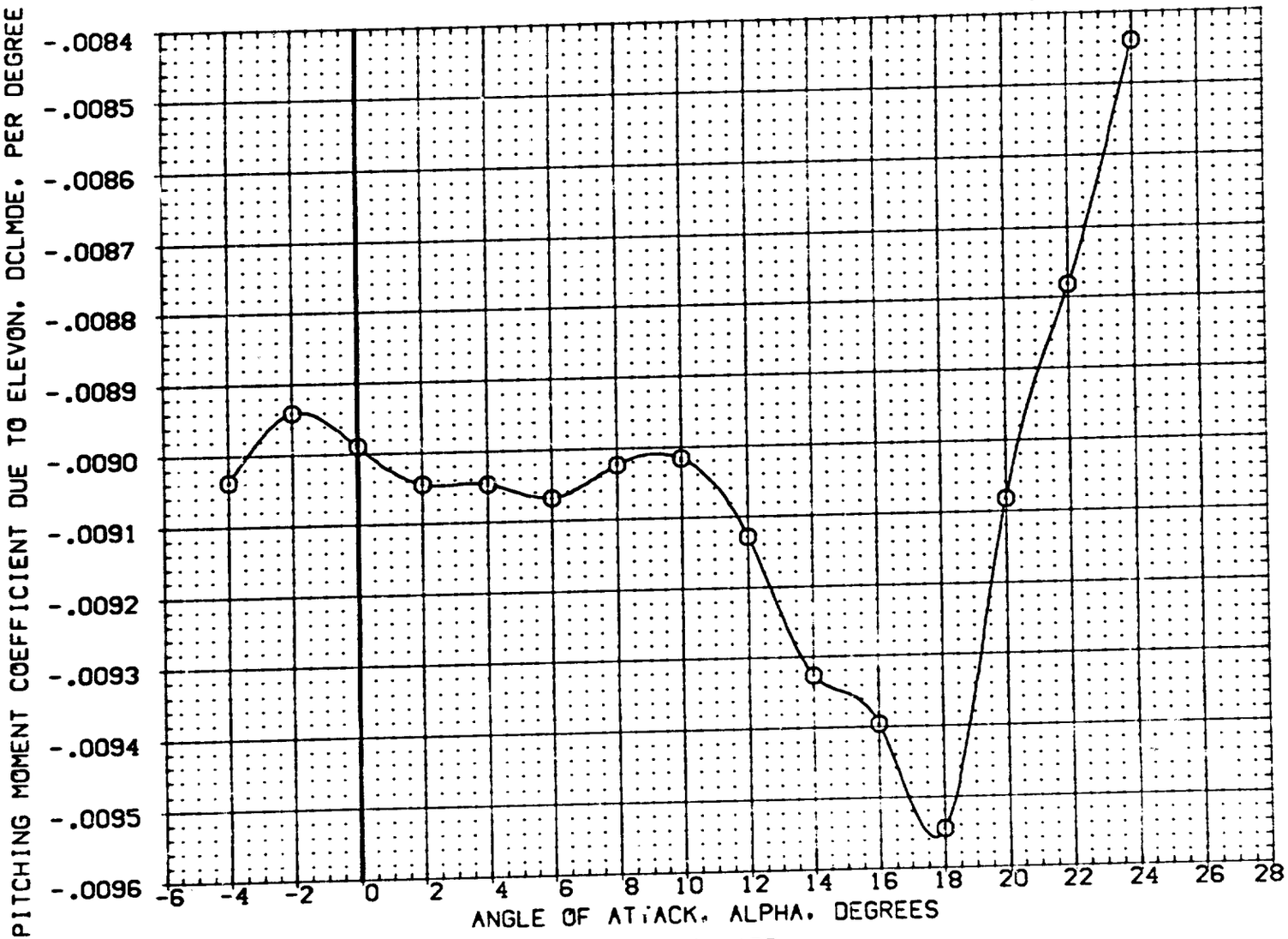


FIGURE 24 ELEVON EFFECTIVENESS WITH H10 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP159)	○	0A21	B17C7H11M4FS	V107E23V7R6X9	
(IDP158)	□	0A21	B17C7H11M4FS	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

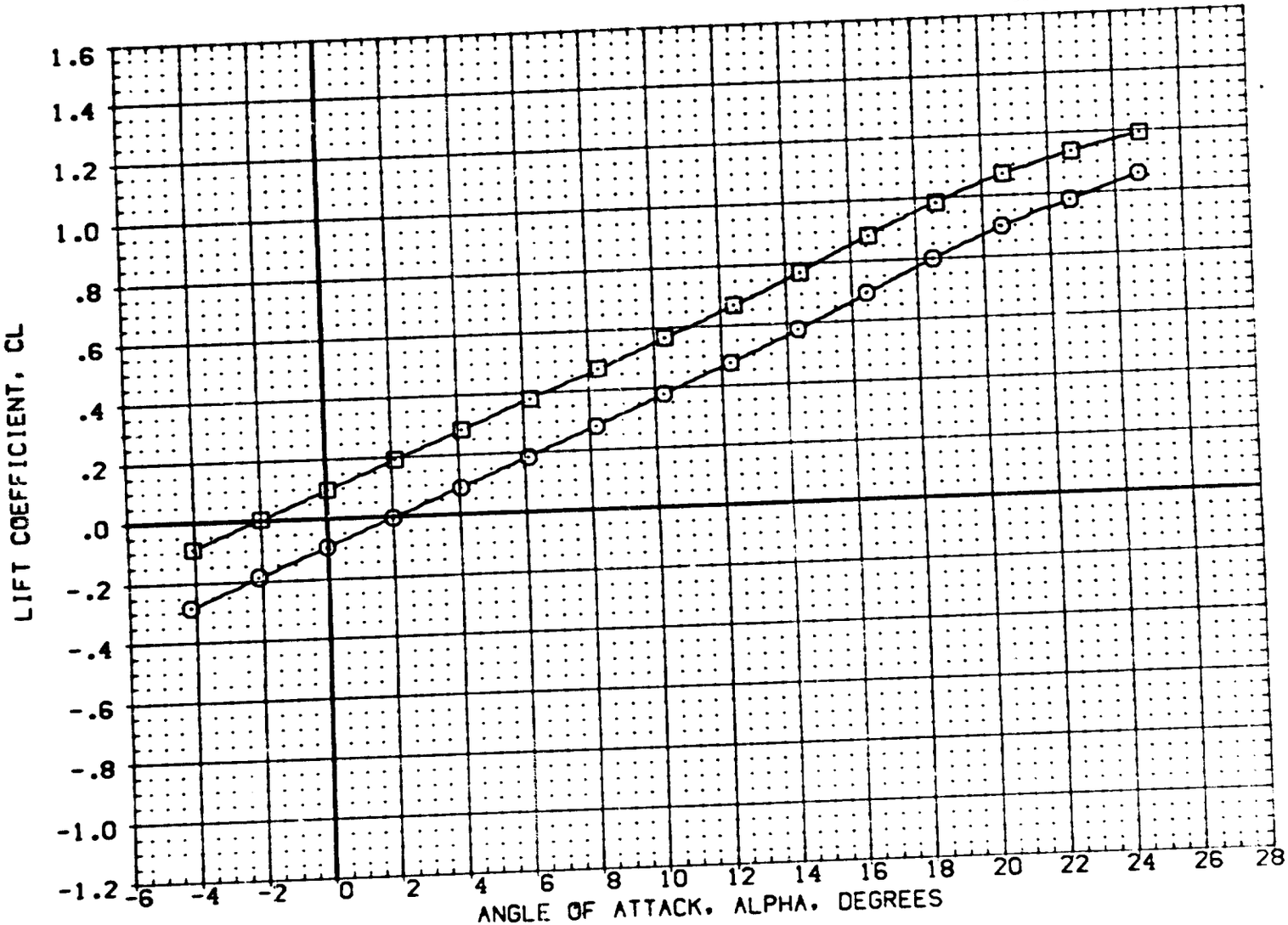


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

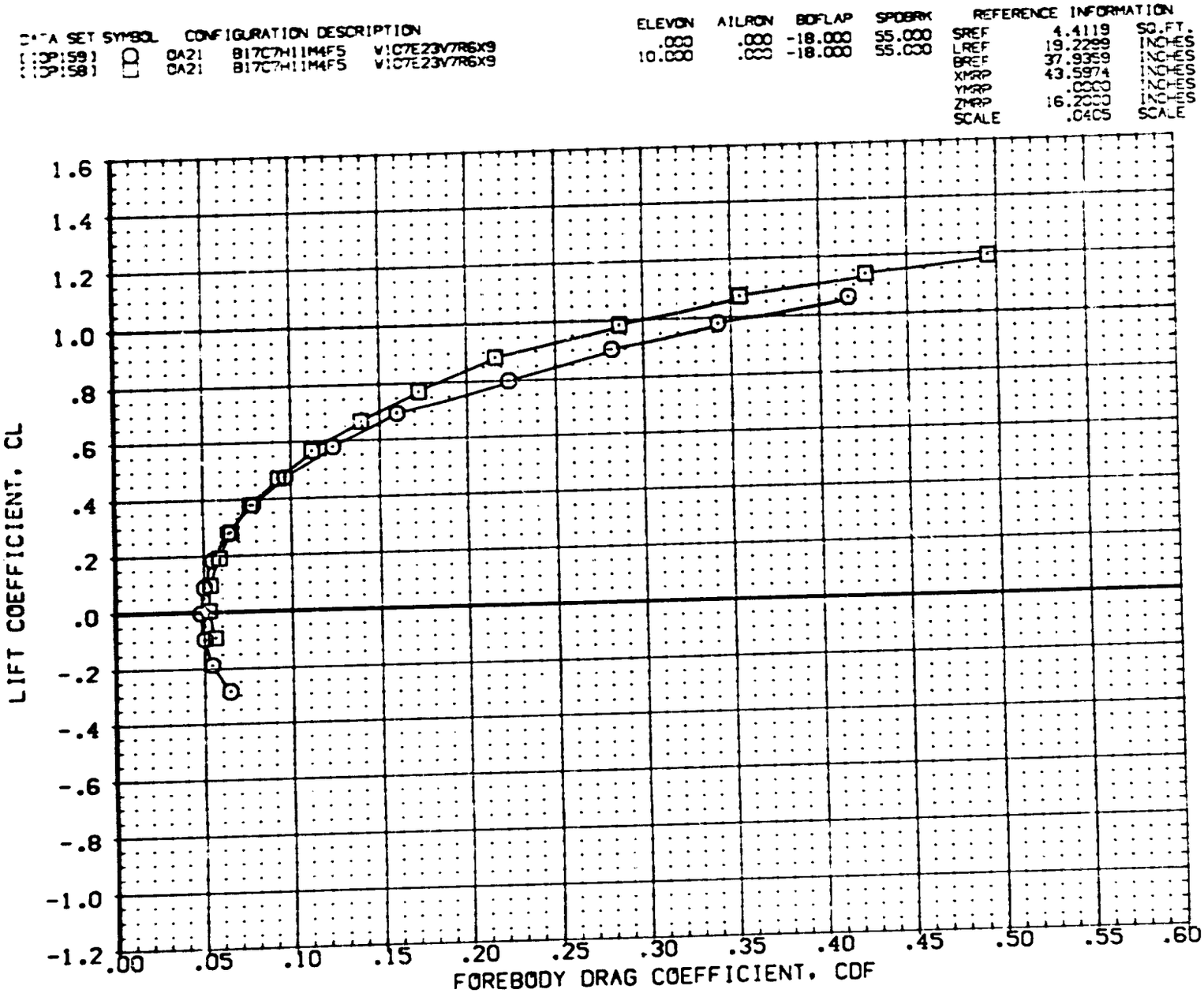


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP159)	○	0A21	B17C7H11M4F5	W107E23V7R6X9
(IDP158)	□	0A21	B17C7H11M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

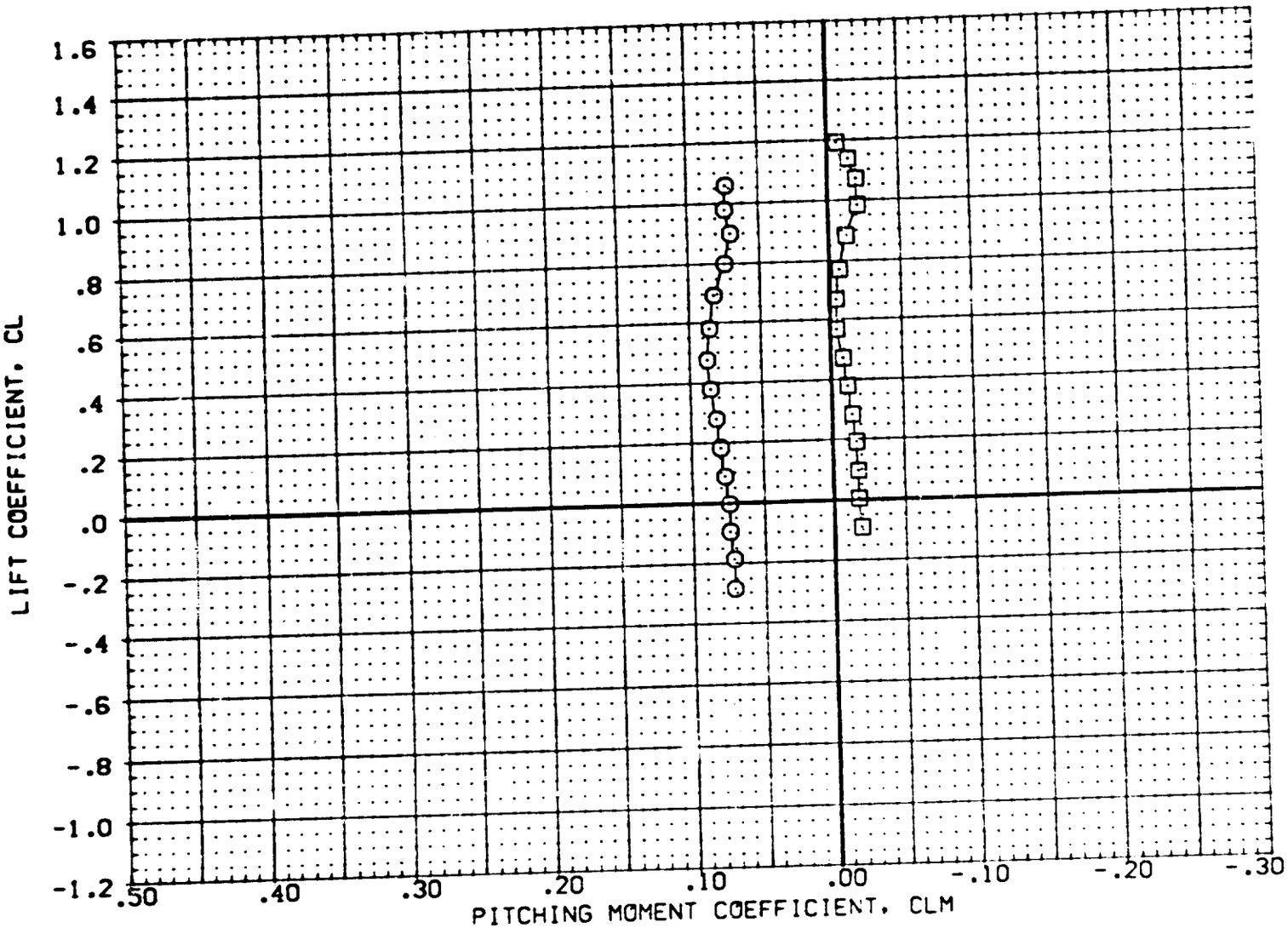


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP159)	○	CA21	B17C7H11M4F5	W107E23V7R6X9
(IDP158)	□	CA21	B17C7H11M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

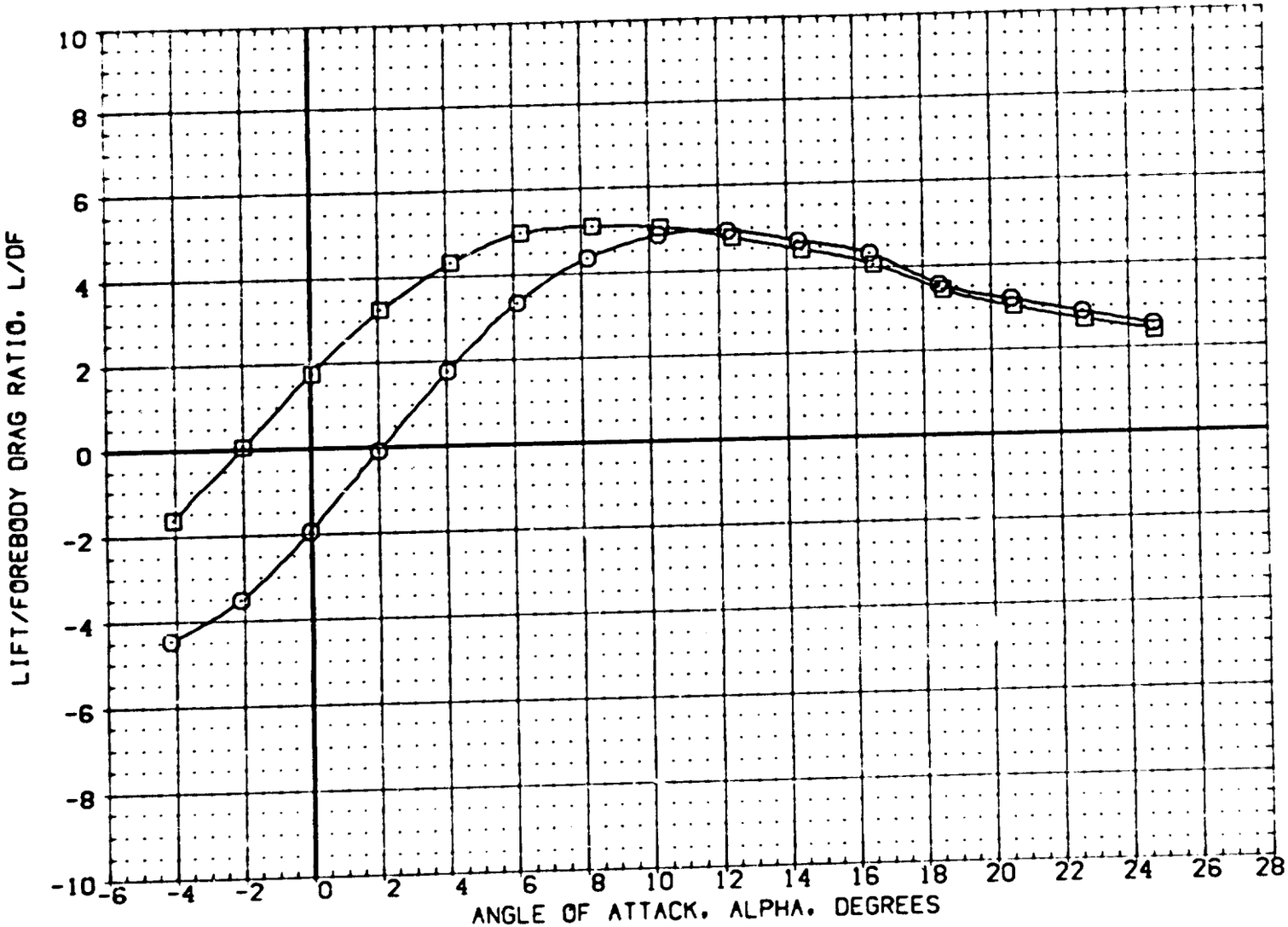


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP158)	○	0A21	B17C7H11M4F5	V107E23V7R6X9
(IDP158)	□	0A21	B17C7H11M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[IDP159]	○	0A21	B17C7H11M4FS	W107E23V7R6X9
[IDP158]	□	0A21	B17C7H11M4FS	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

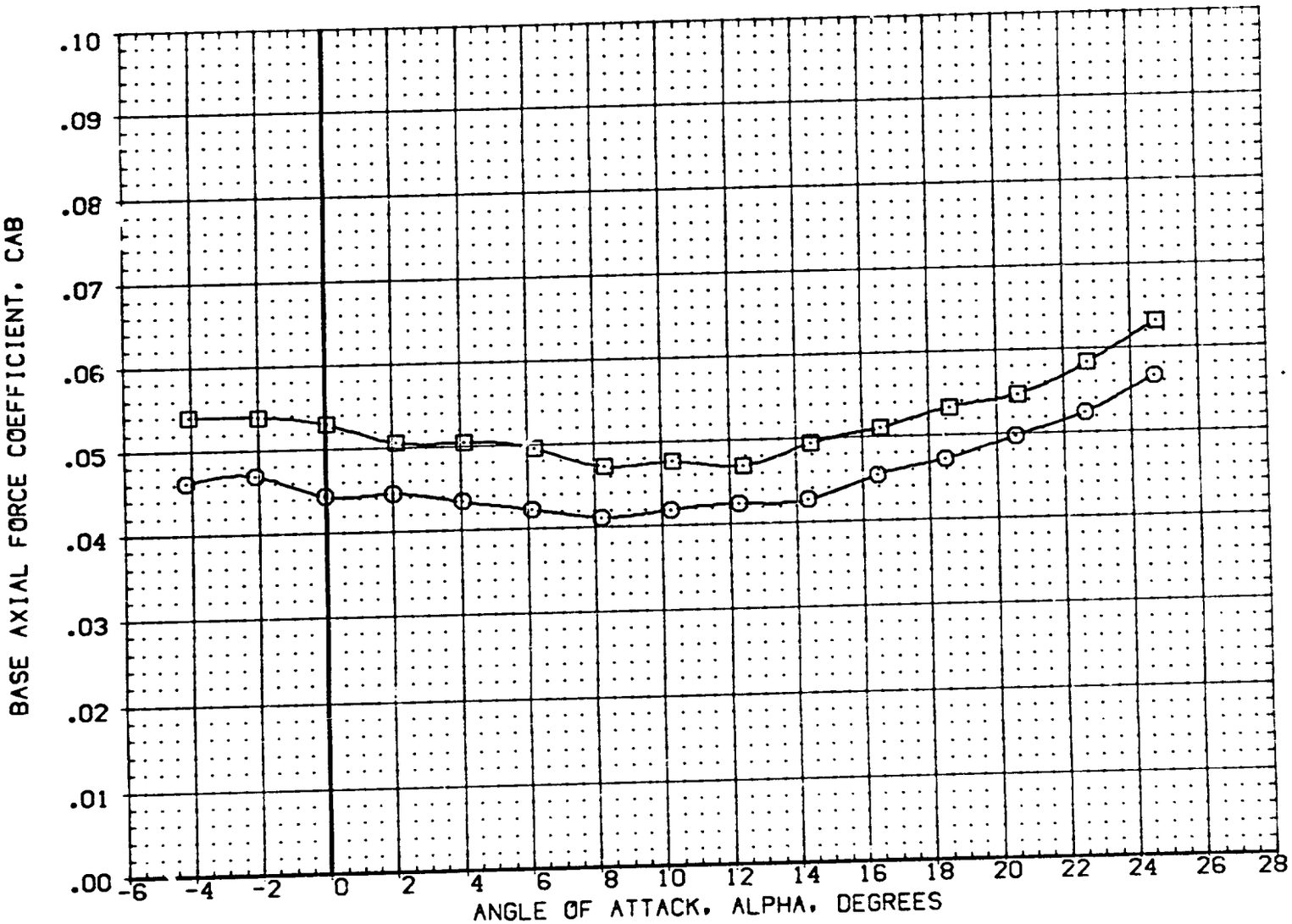


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP159) ○	0A21	B17C7H11M4F5	W107E23V7R6X9	
(IDP158) □	0A21	B17C7H11M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

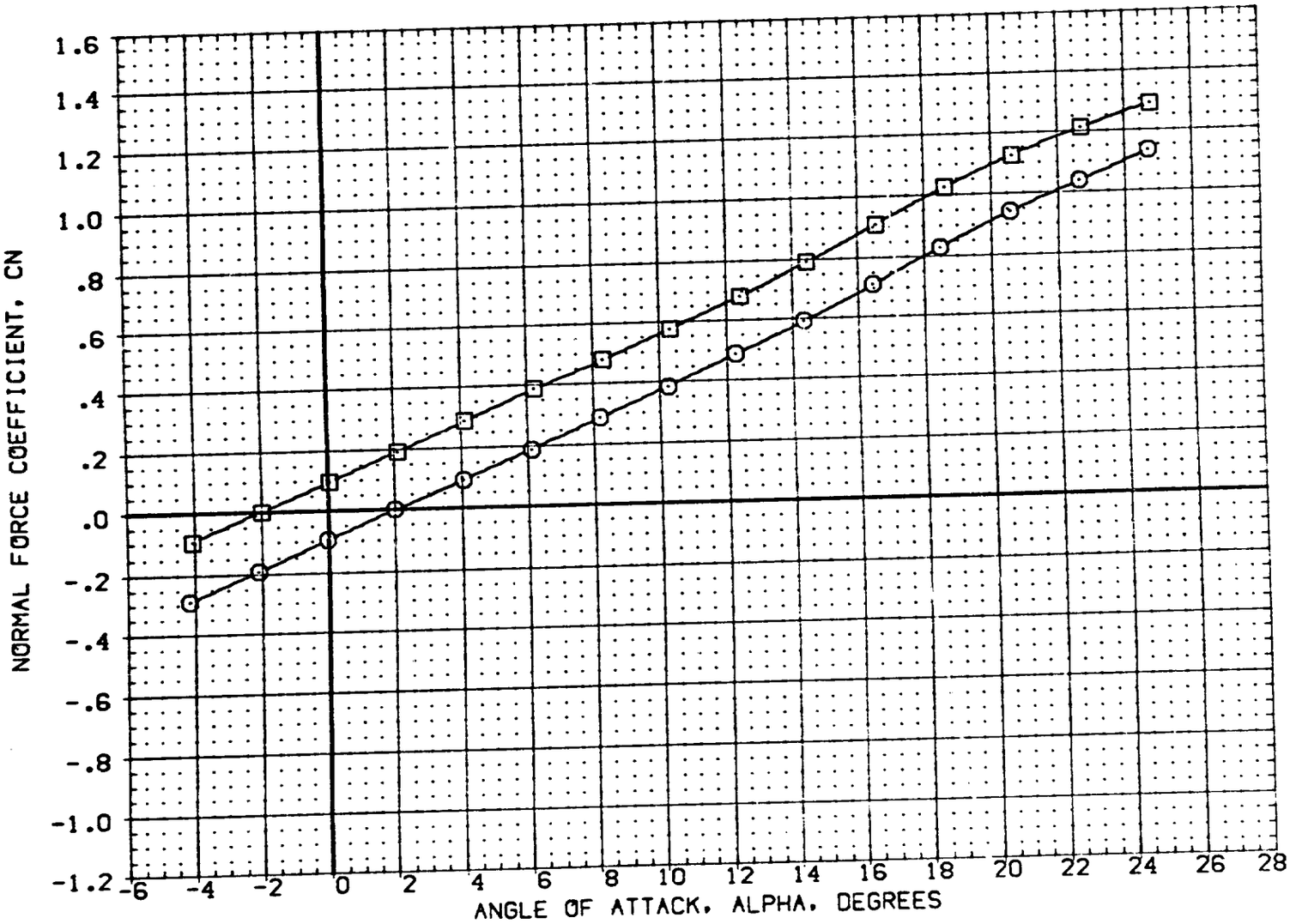


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

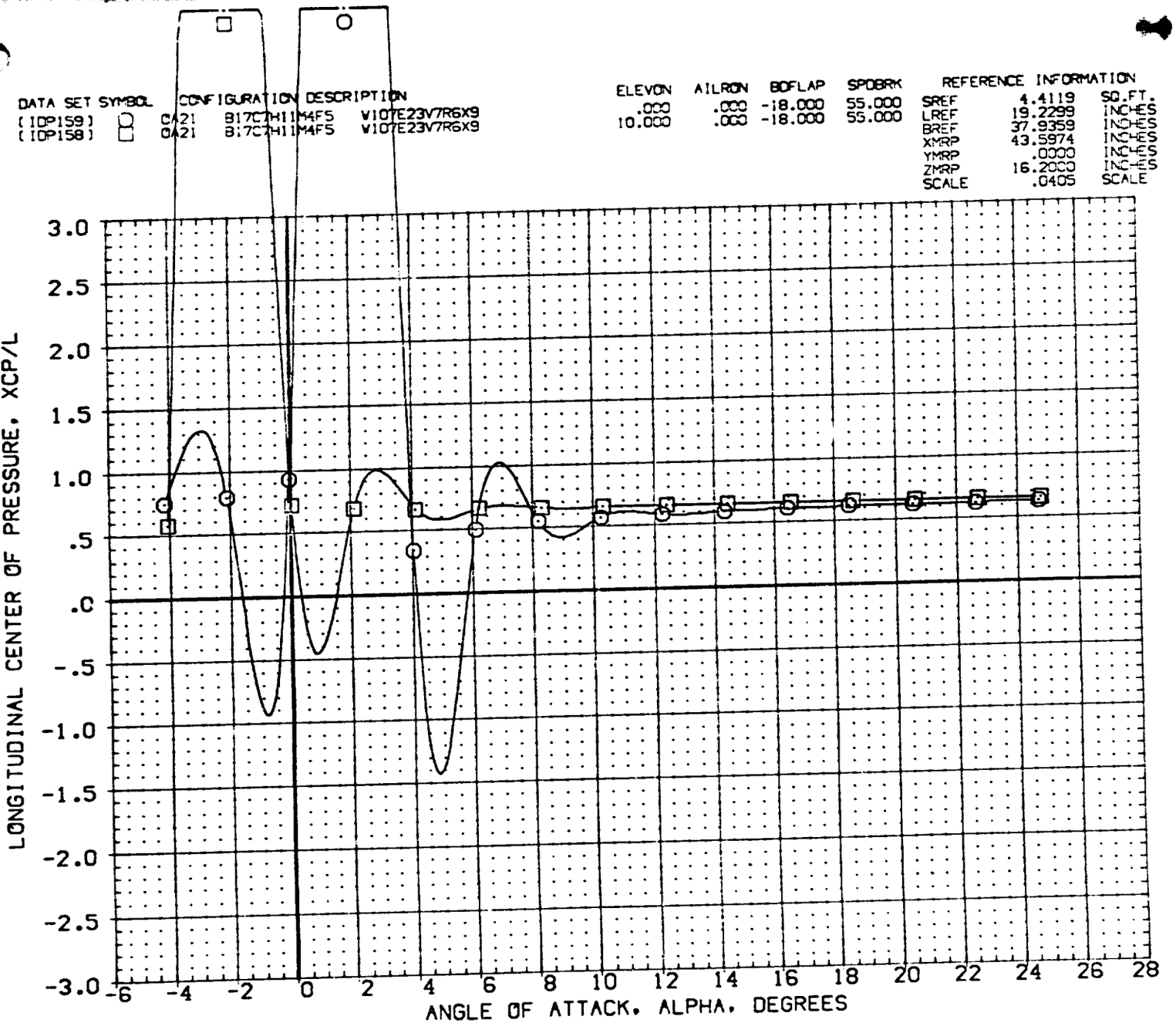


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP159)	○	CA21	B17C7H11M4F5	V107E23V7R6X9
(IDP158)	□	CA21	B17C7H11M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

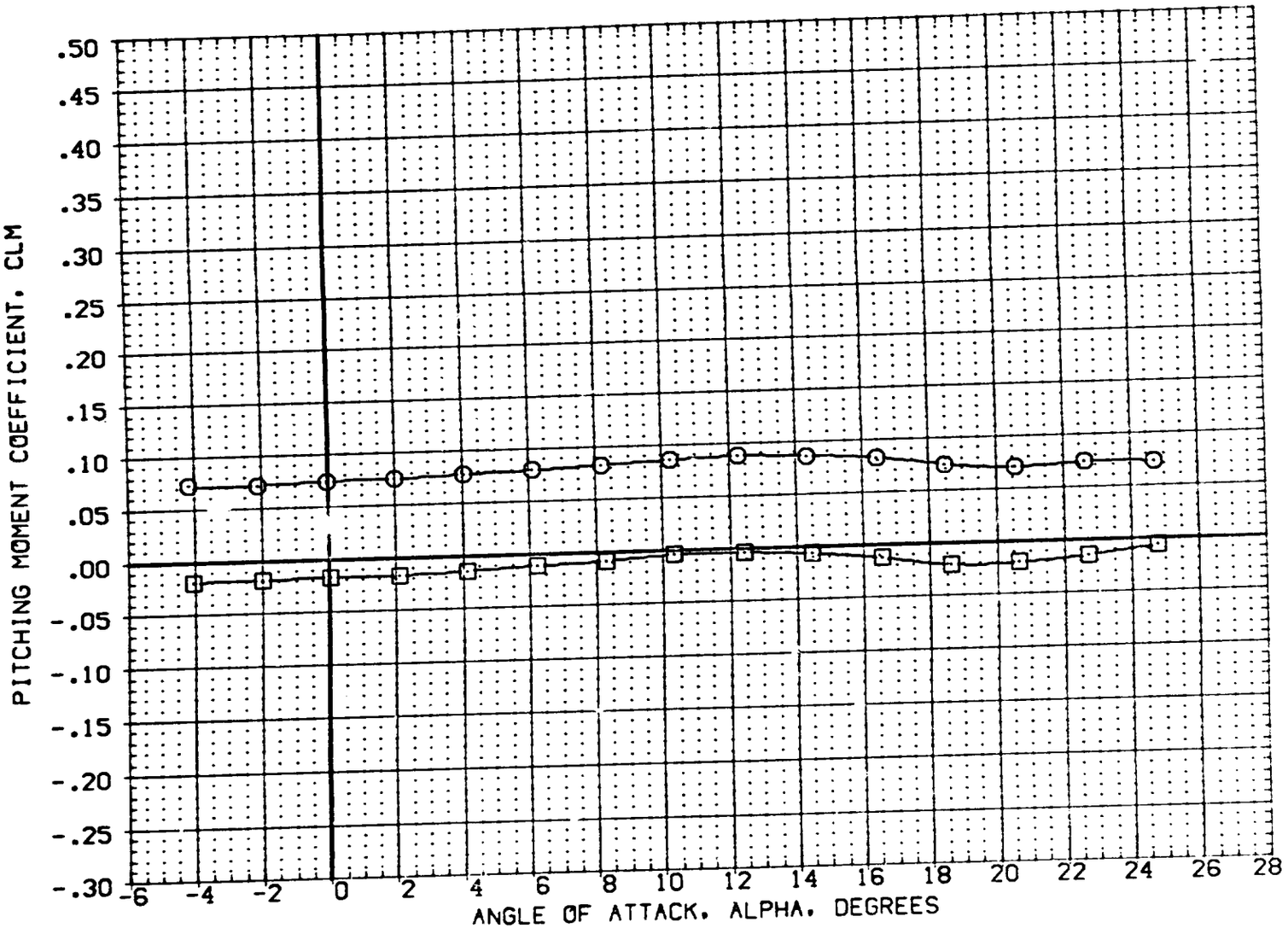


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP158) ○ 0A21 B17C7H11M4F5 W107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(COP158) ○ 0A21 B17C7H11M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

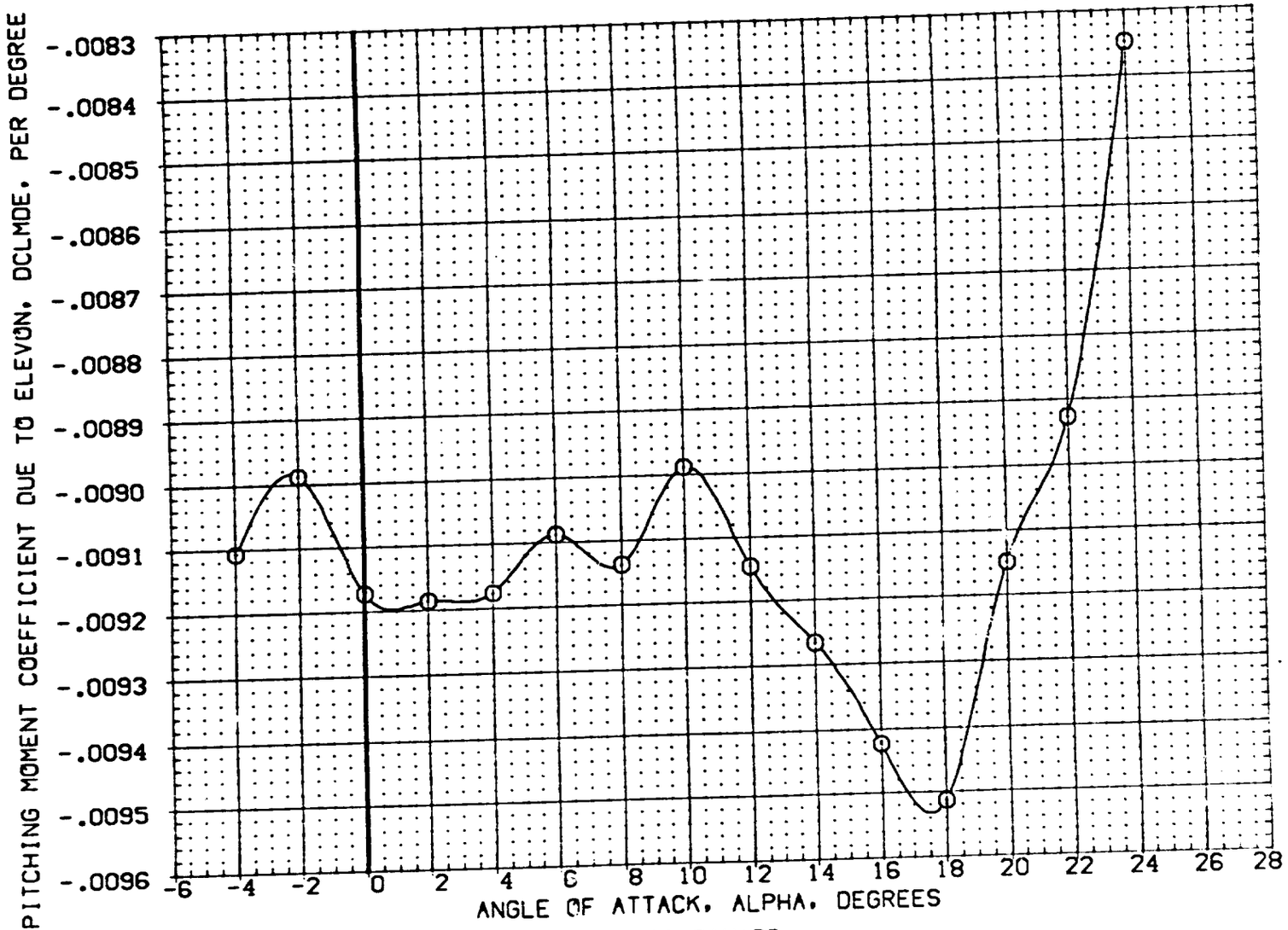


FIGURE 25 ELEVON EFFECTIVENESS WITH H11 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(IDP142)	○	0A21	B17C7H12M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(IDP155)	□	0A21	B17C7H12M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

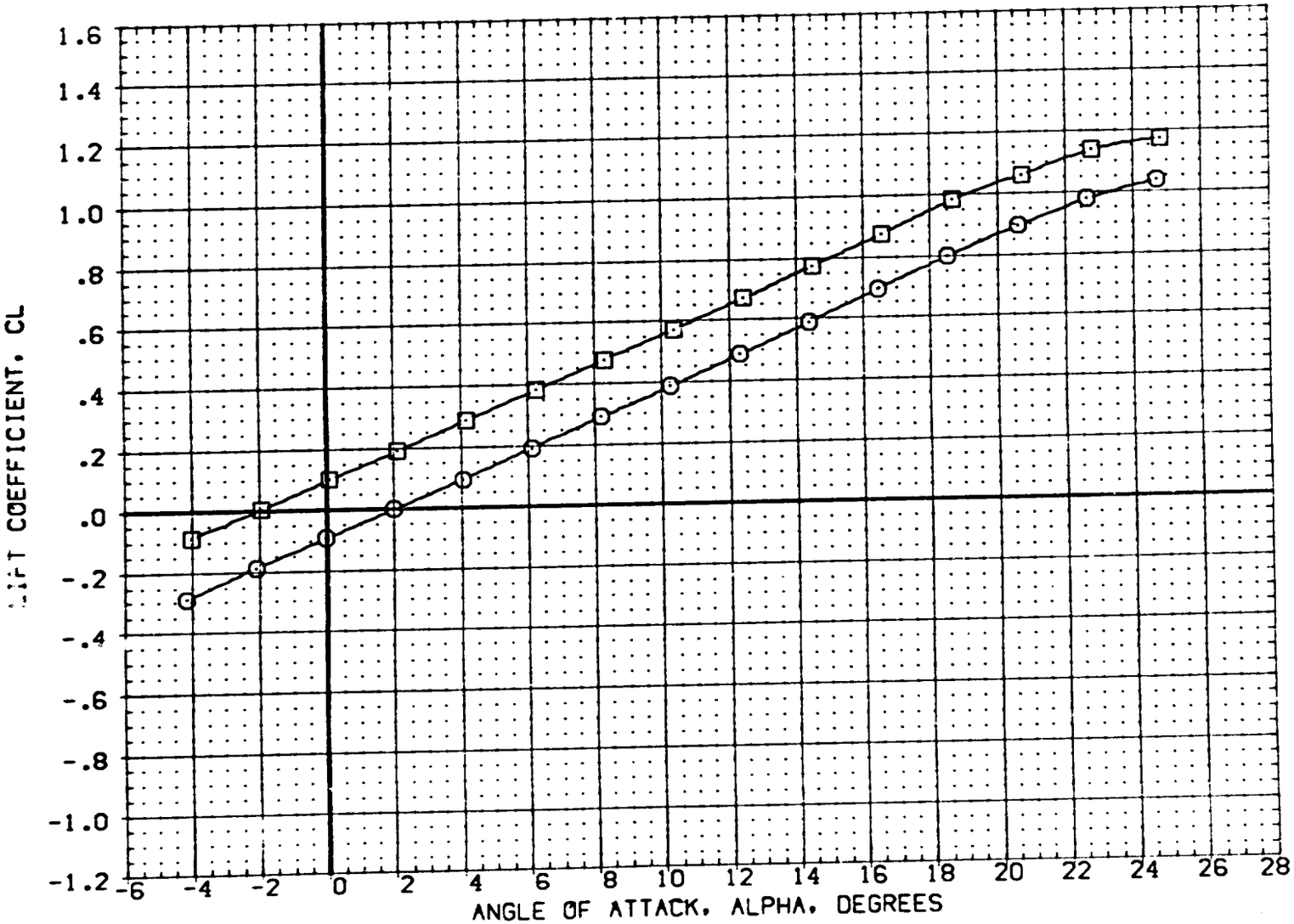


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP142)	0A21	B17C7H12M4F5	V107E23V7R6X9	
(IDP155)	0A21	B17C7H12M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

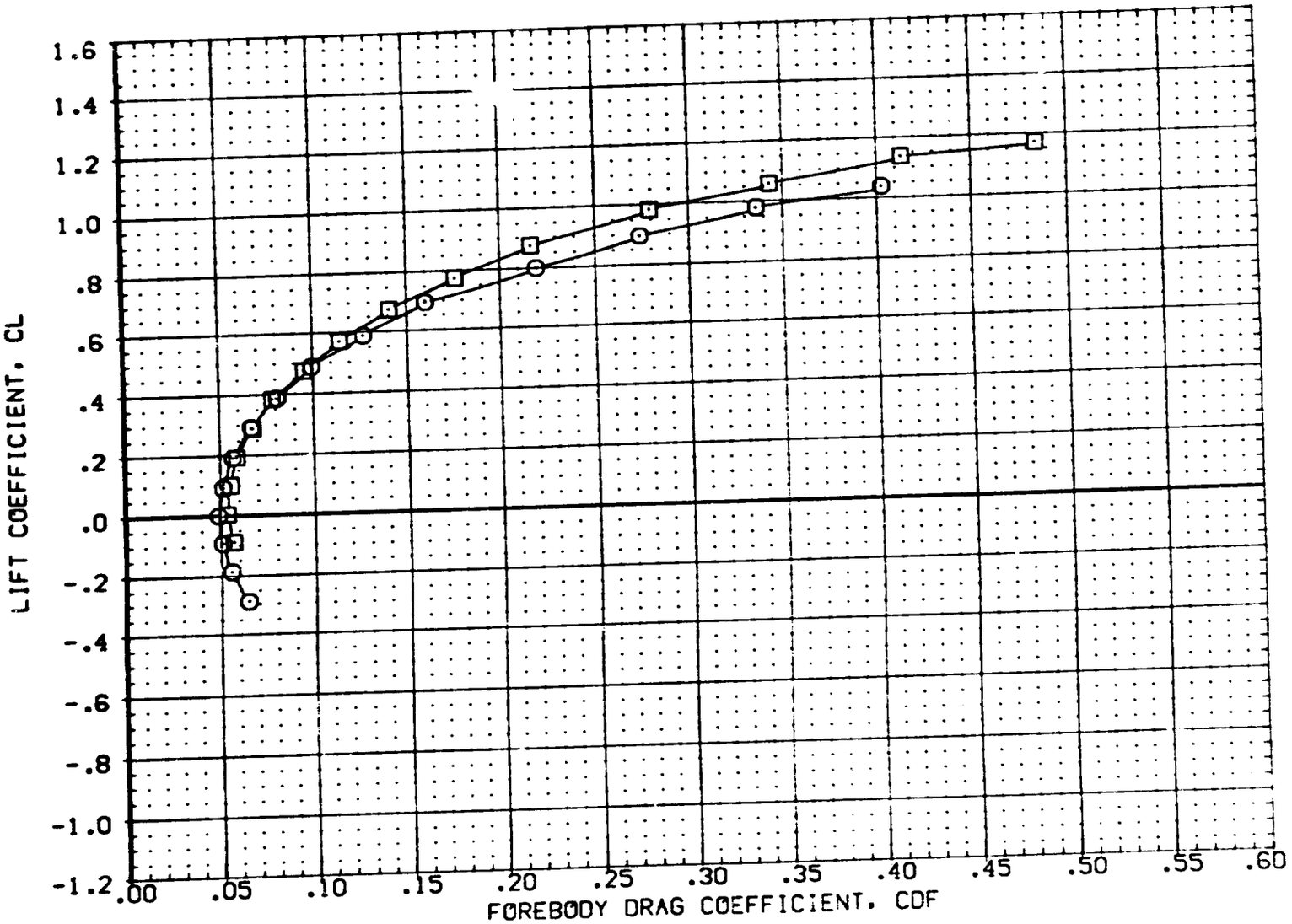


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
[IDP142]	○	0A21	B17C7H12M4F5	W107E23V7R6X9	
[IDP155]	□	0A21	B17C7H12M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

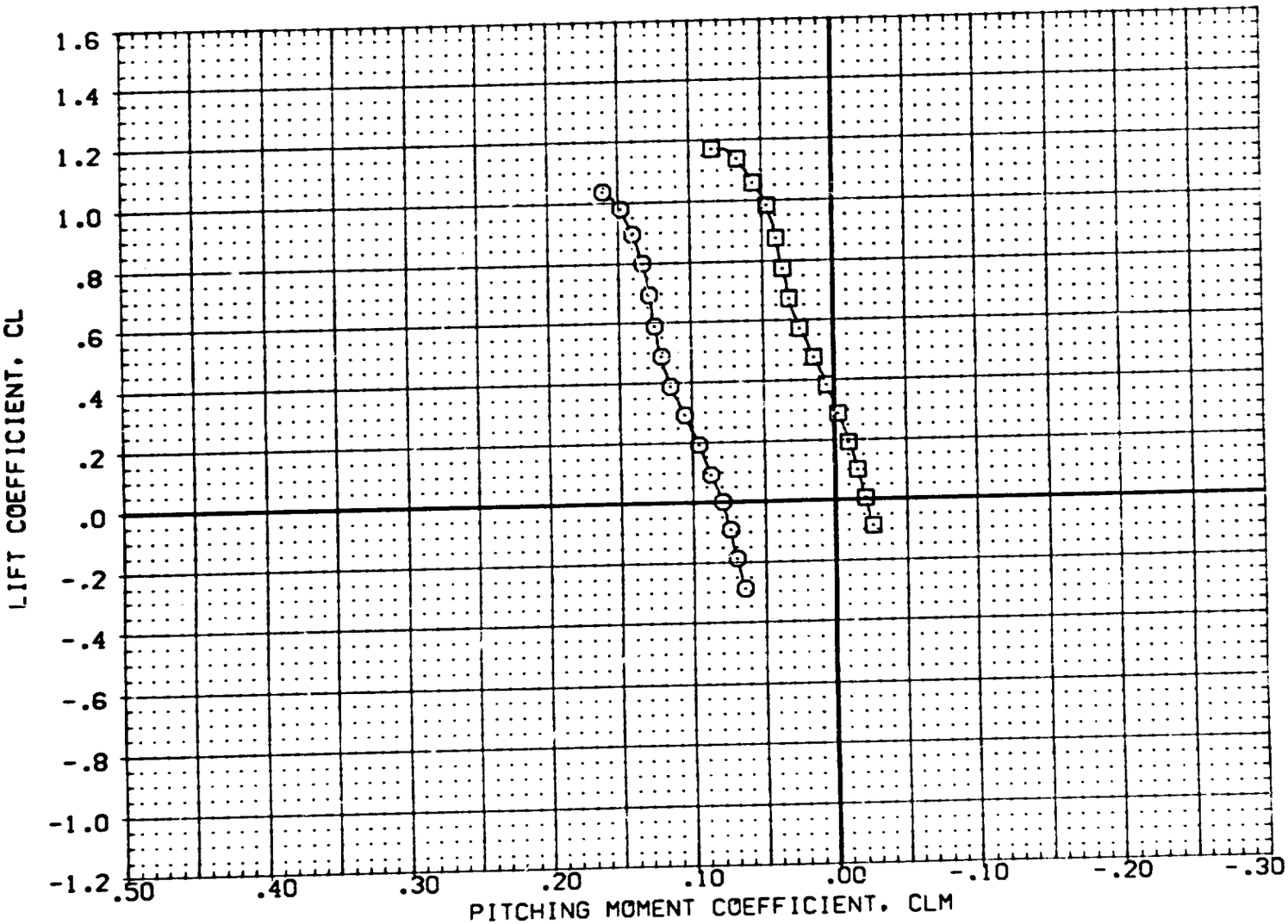


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[IDP142]	0A21	B17C7H12M4F5	V107E23V7R6X9	
[IDP155]	0A21	B17C7H12M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

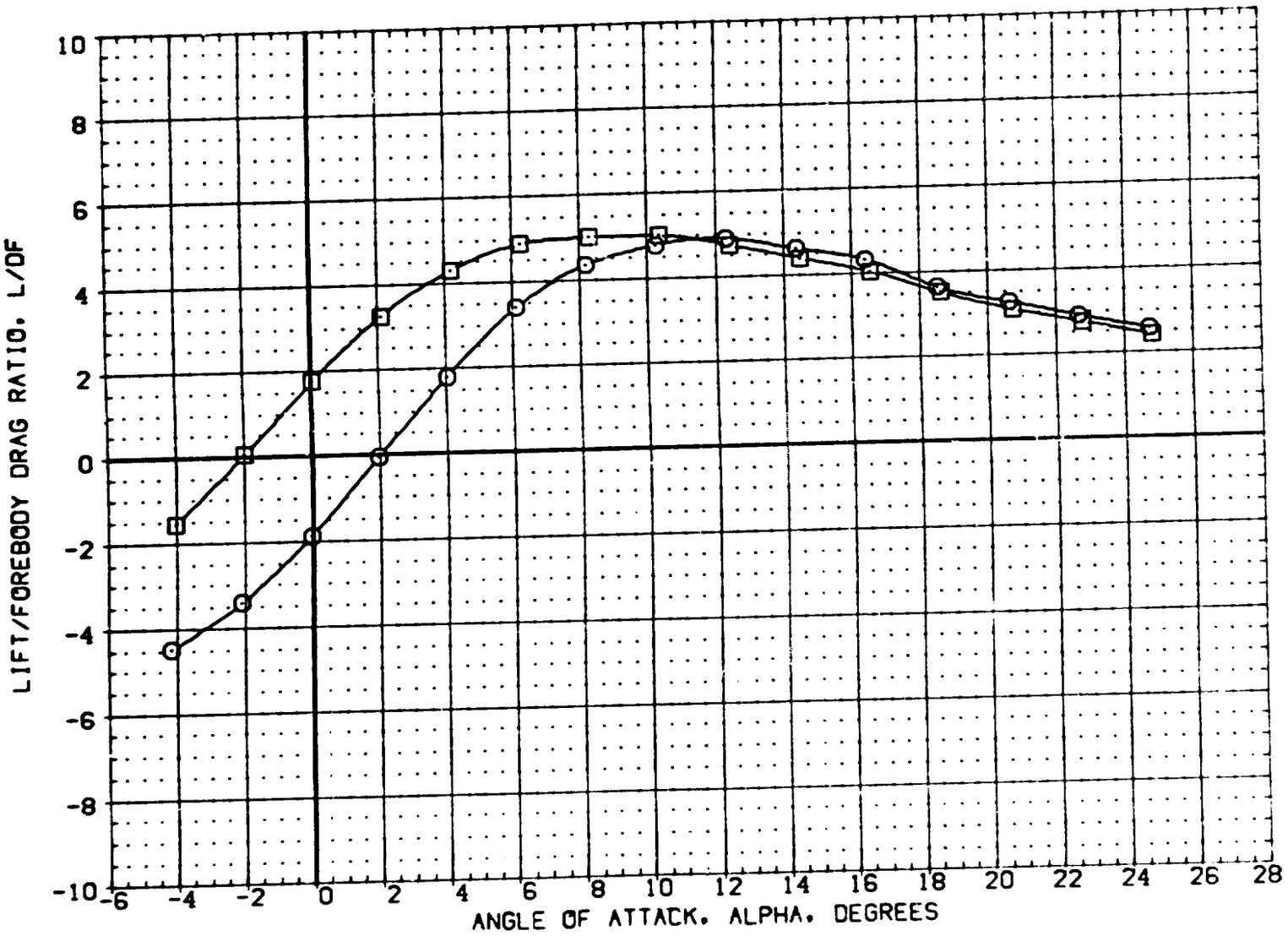


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[IDP142]		OA2.	B17C7H12M4F5	W107E23V7R6X9
[IDP155]		OA2i	B17C7H12M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

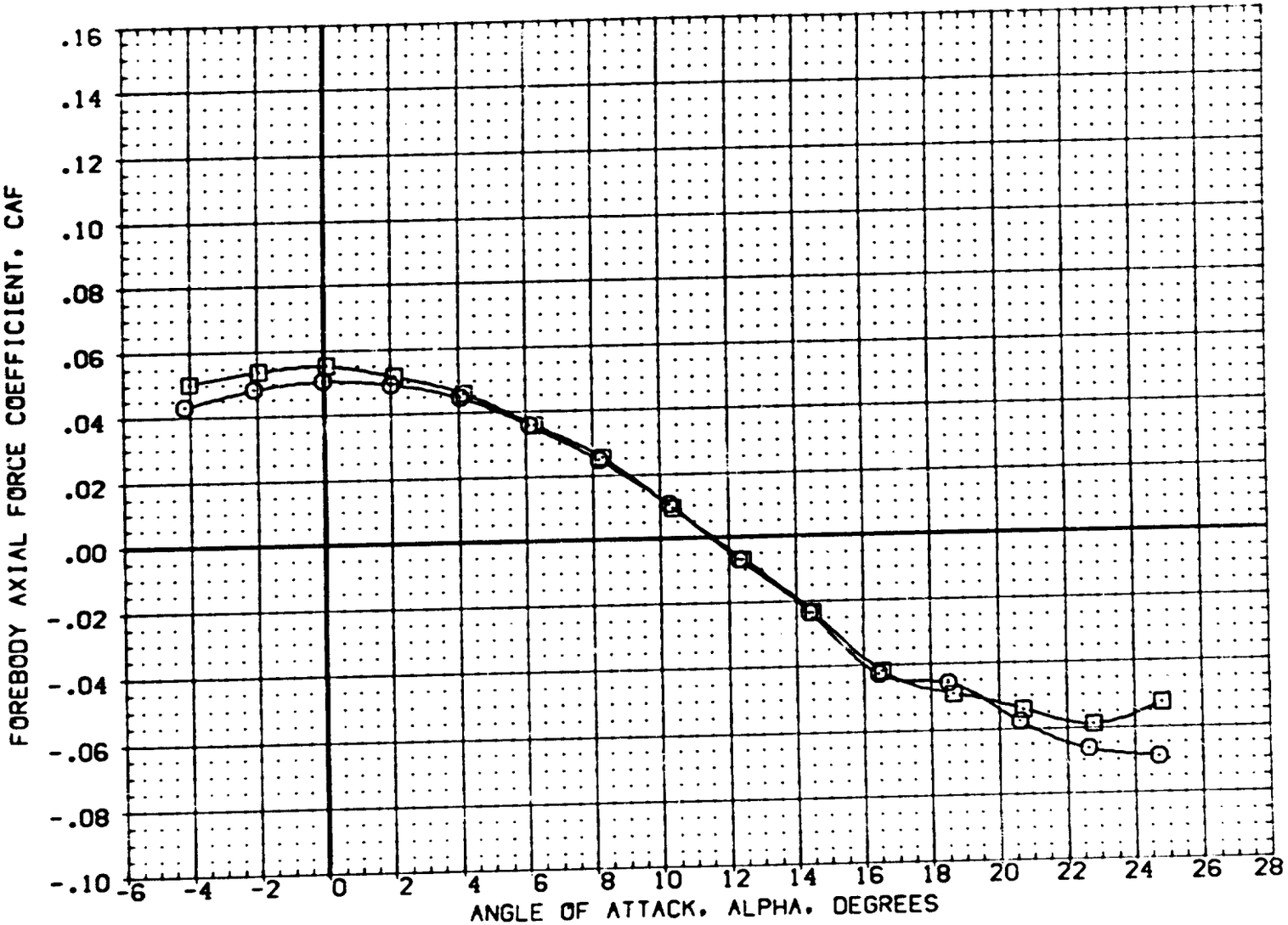


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP142)	8	0A21	B17C7H12H4FS	V107E23V7R5X9
(IDP155)	8	0A21	B17C7H12H4FS	V107E23V7R5X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

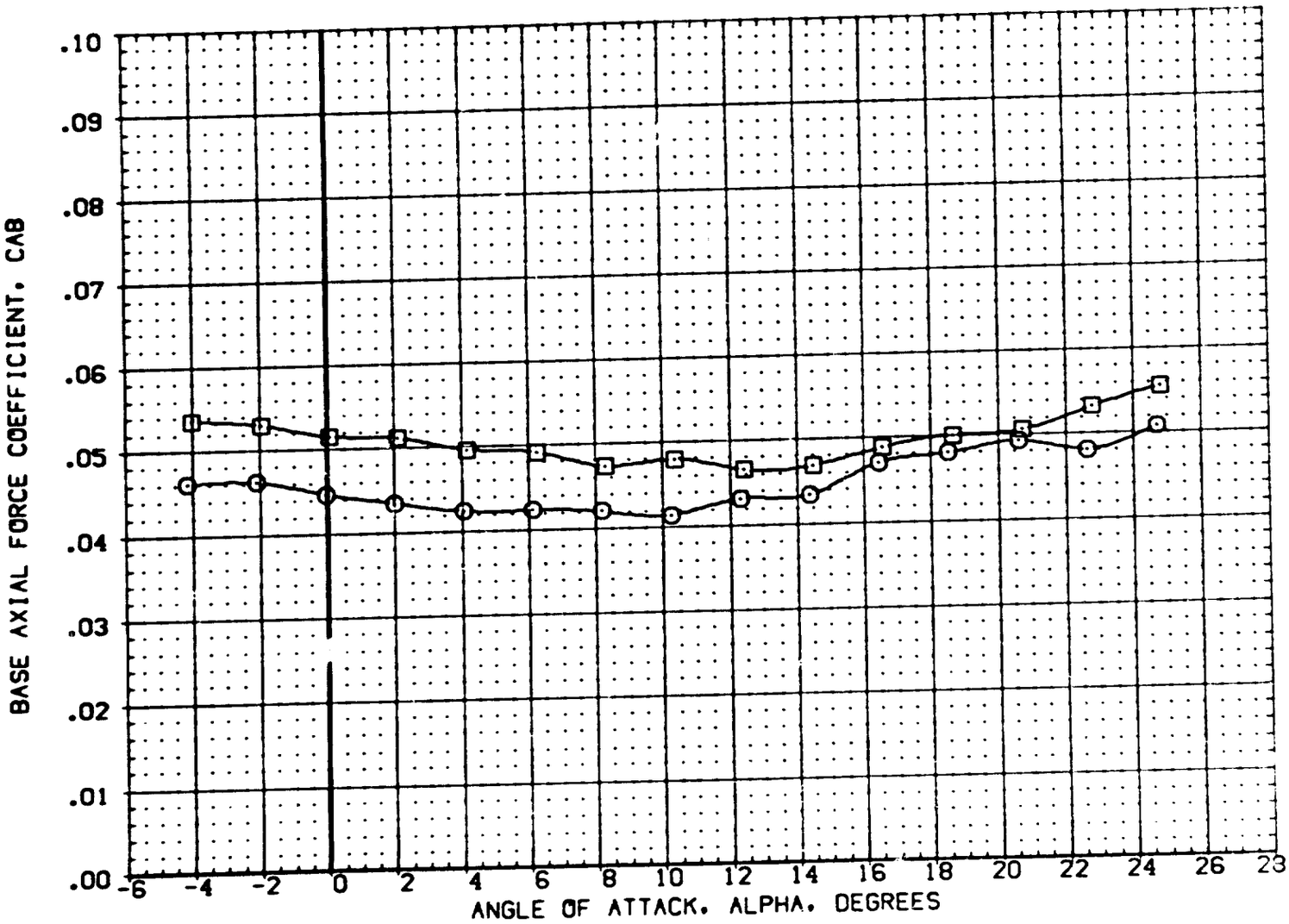


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION		ELEVON	AILRON	BDFLAP	SPOBRK
(IDP142)		DA21	B17C7H12F4F5	V1C7E23V7R6X9	.000	.000	-18.000	55.000
(IDP155)		DA21	B17C7H12M4F5	V1C7E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	9.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

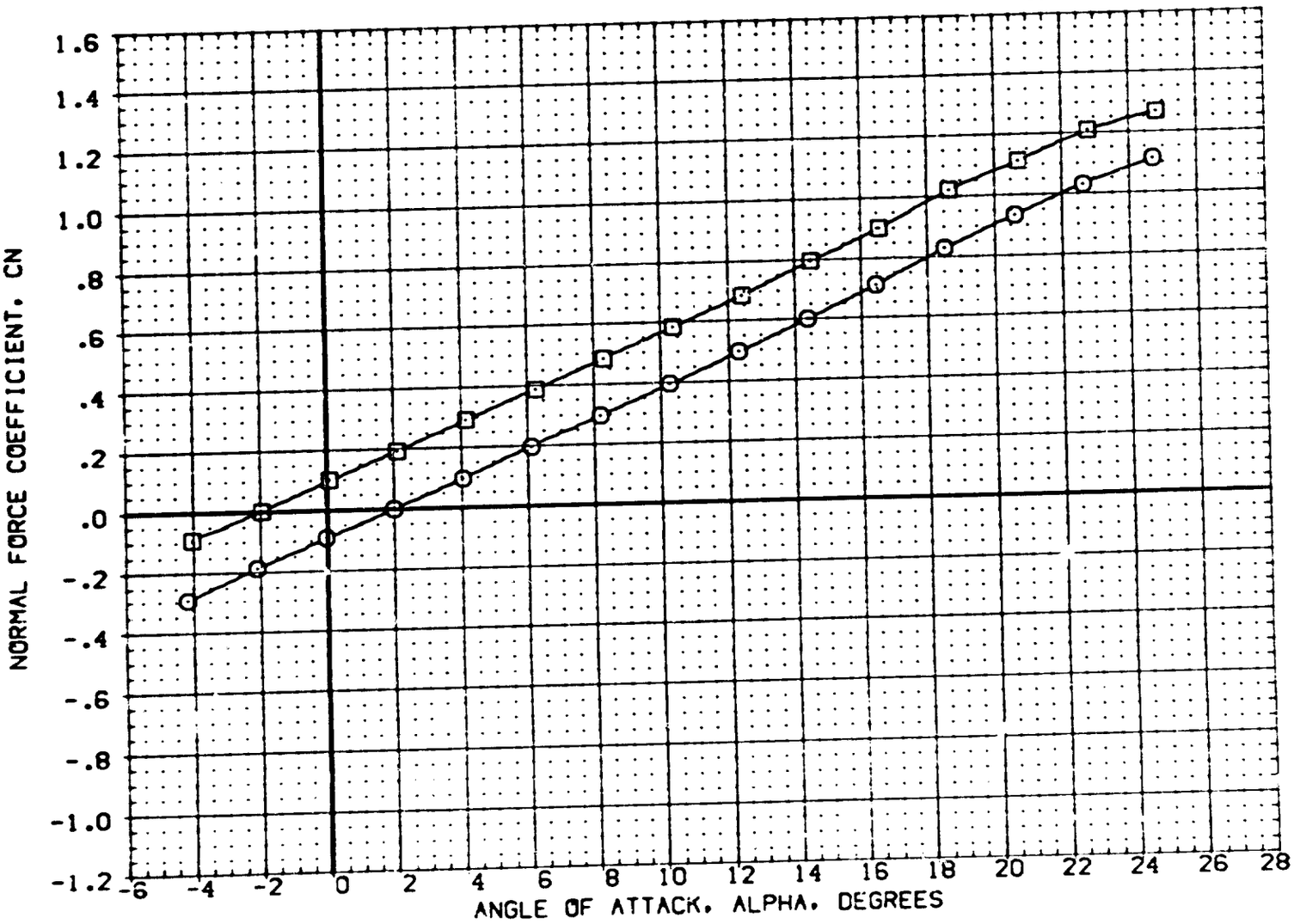


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

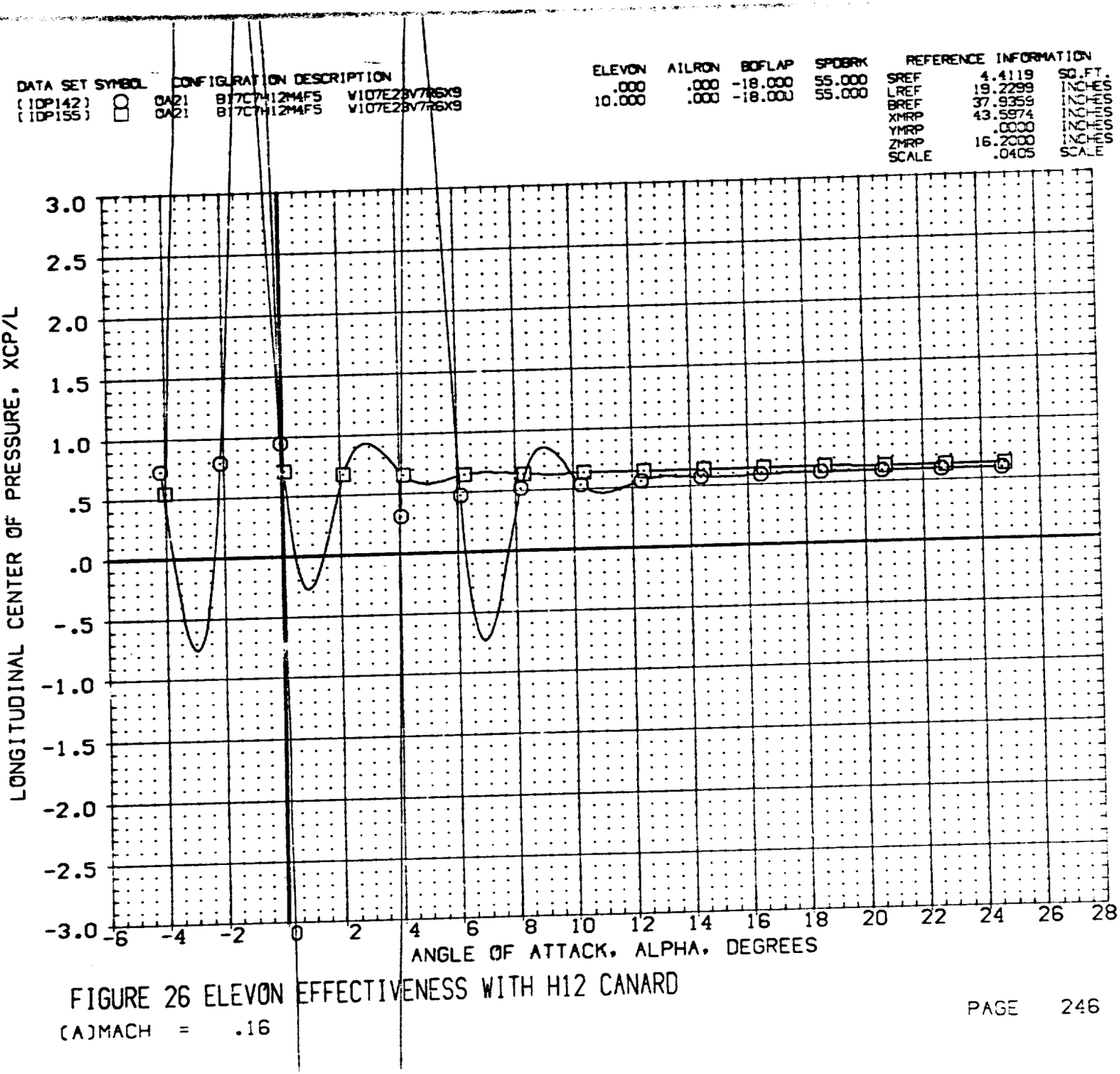


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP142)	○	0A21	B17C7H12M4F5	W107E23V7R6X9
(IDP155)	□	0A21	B17C7H12M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

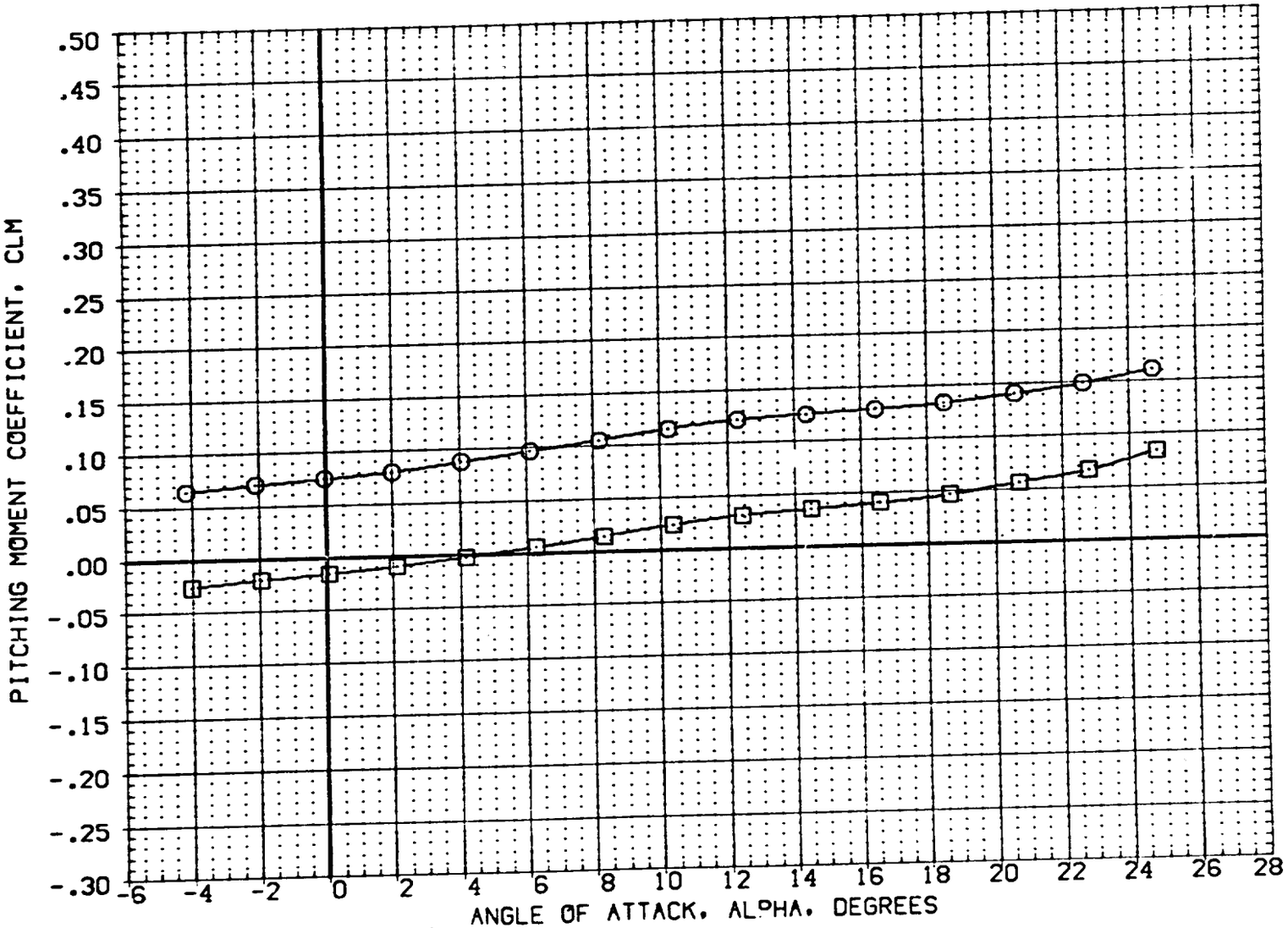


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP155) ○ 0A21 B17C7H12M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP155) ○ 0A21 B17C7H12M4F5 W107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

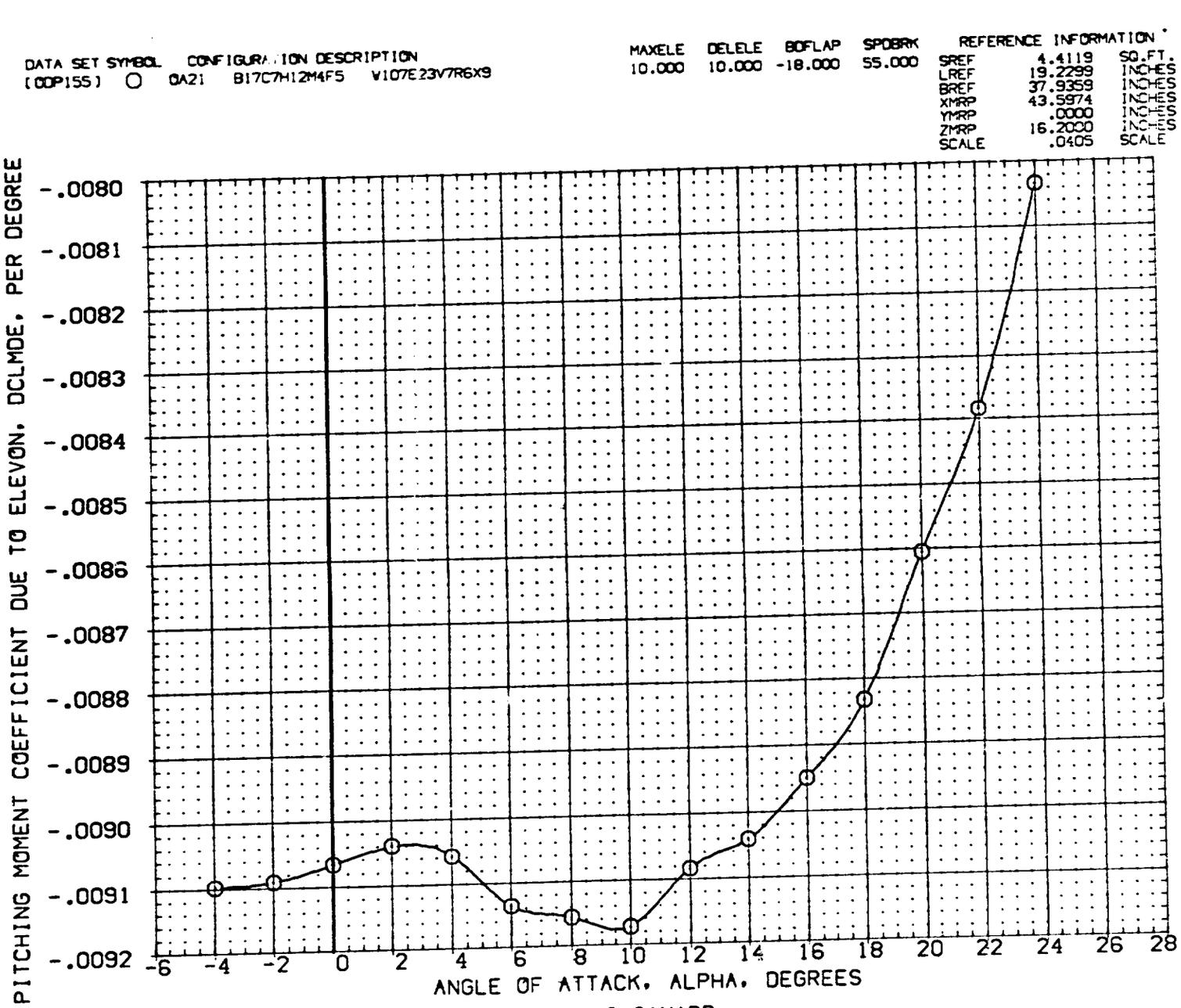


FIGURE 26 ELEVON EFFECTIVENESS WITH H12 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP143)	○	0A21	B17C7H13M4F5	W107E23V7R6X9
(IDP154)	□	0A21	B17C7H13M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

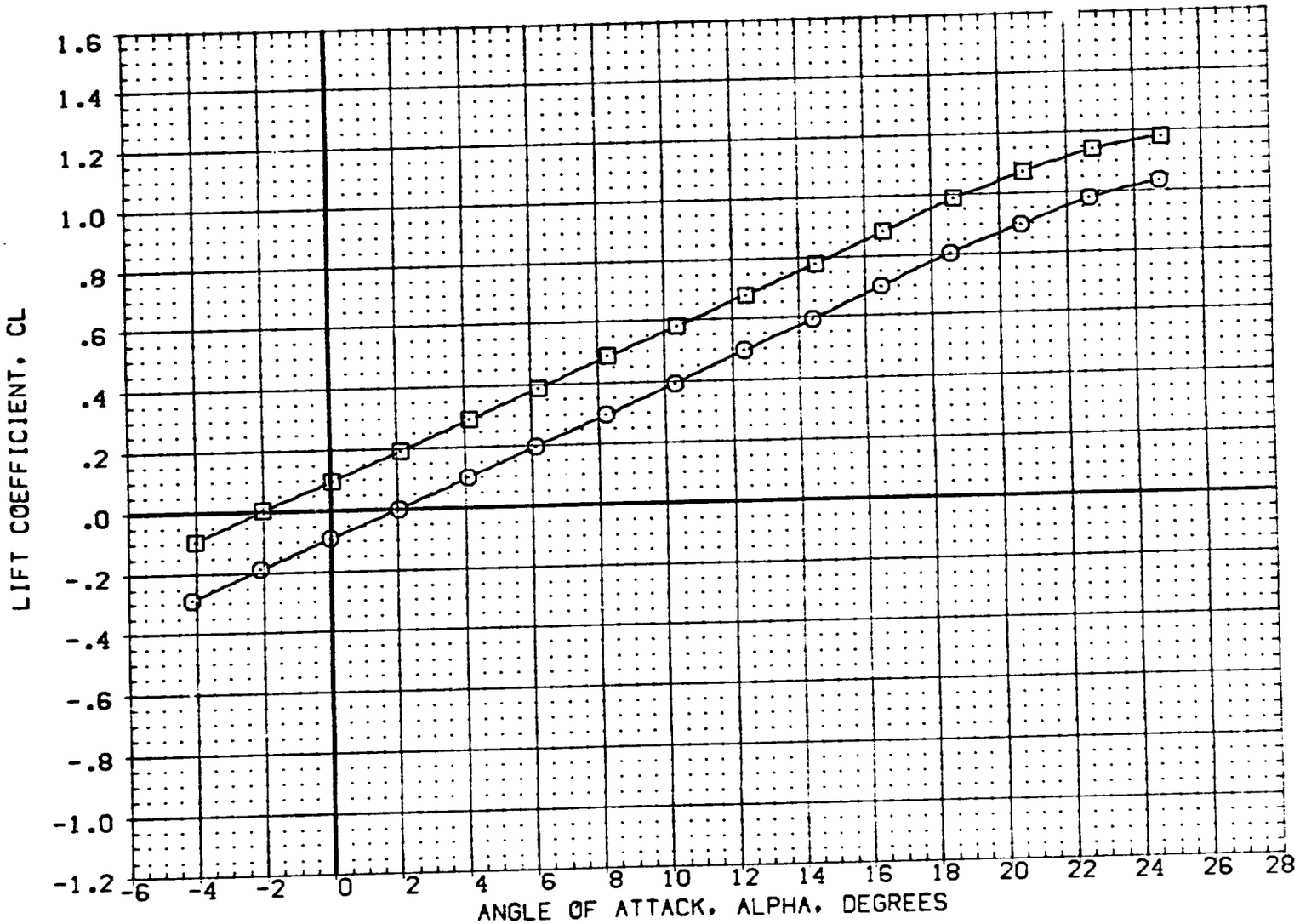


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IOP143)	○	OA21	B17C7H13M4F5	W107E23V7R6X9
(IOP154)	□	OA21	B17C7H13M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

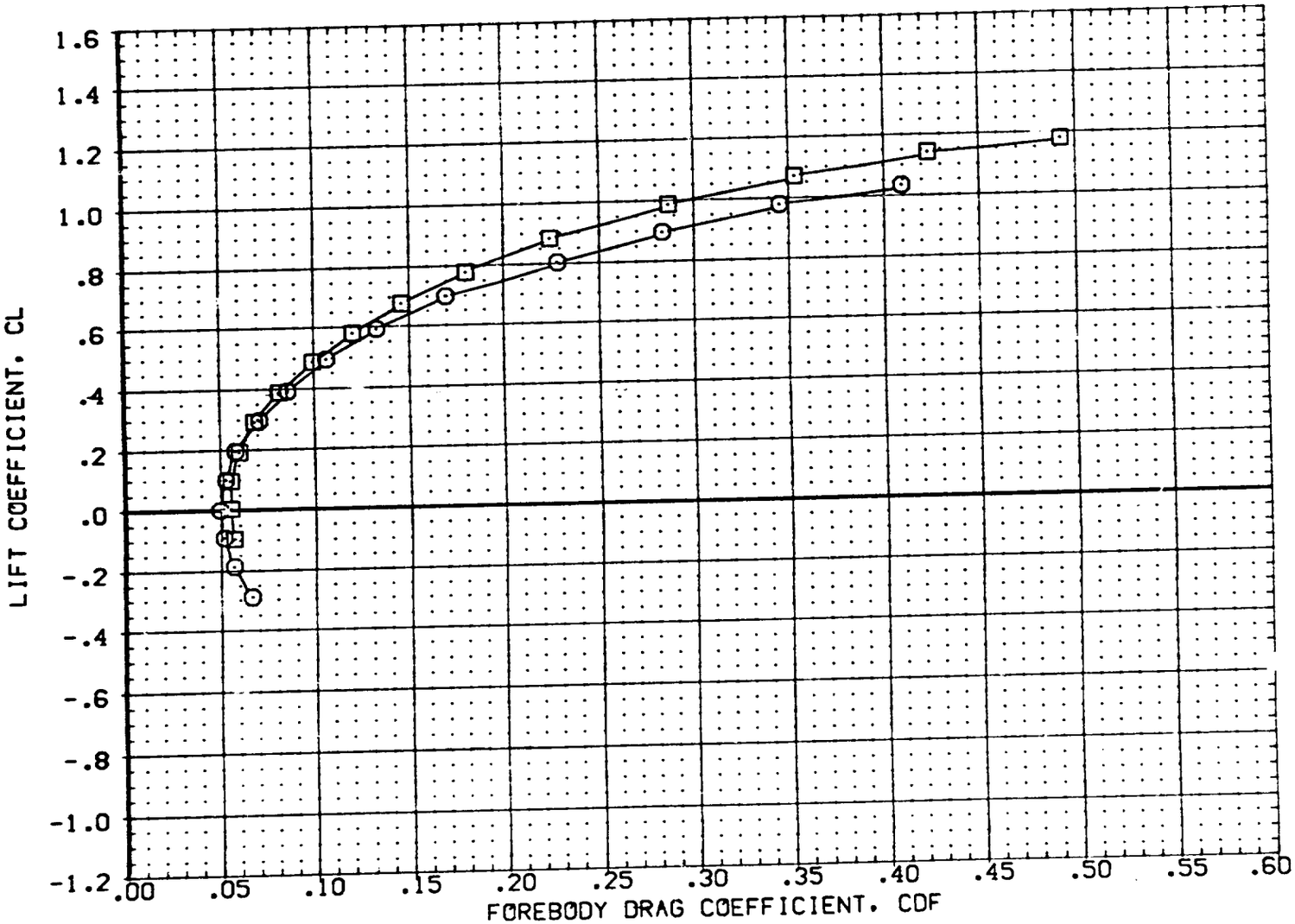


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP143)	○	CA21	B17C7H13M4F5	V107E23V7R6X9
(IDP154)	□	CA21	B17C7H13M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

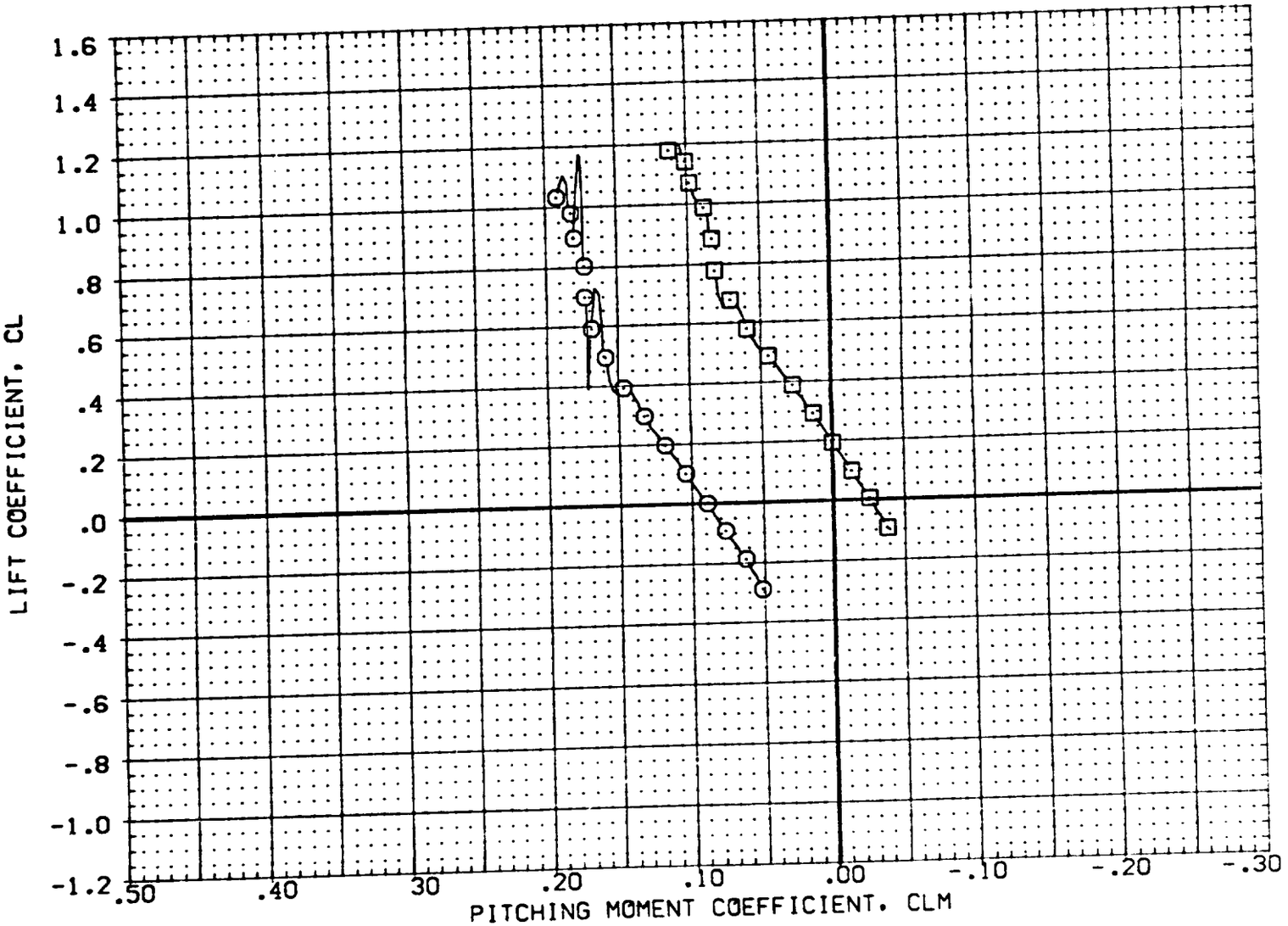


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP143)	○	0A21	B17C7H13M4F5	W107E23V7R6X9
(IDP154)	□	0A21	B17C7H13M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

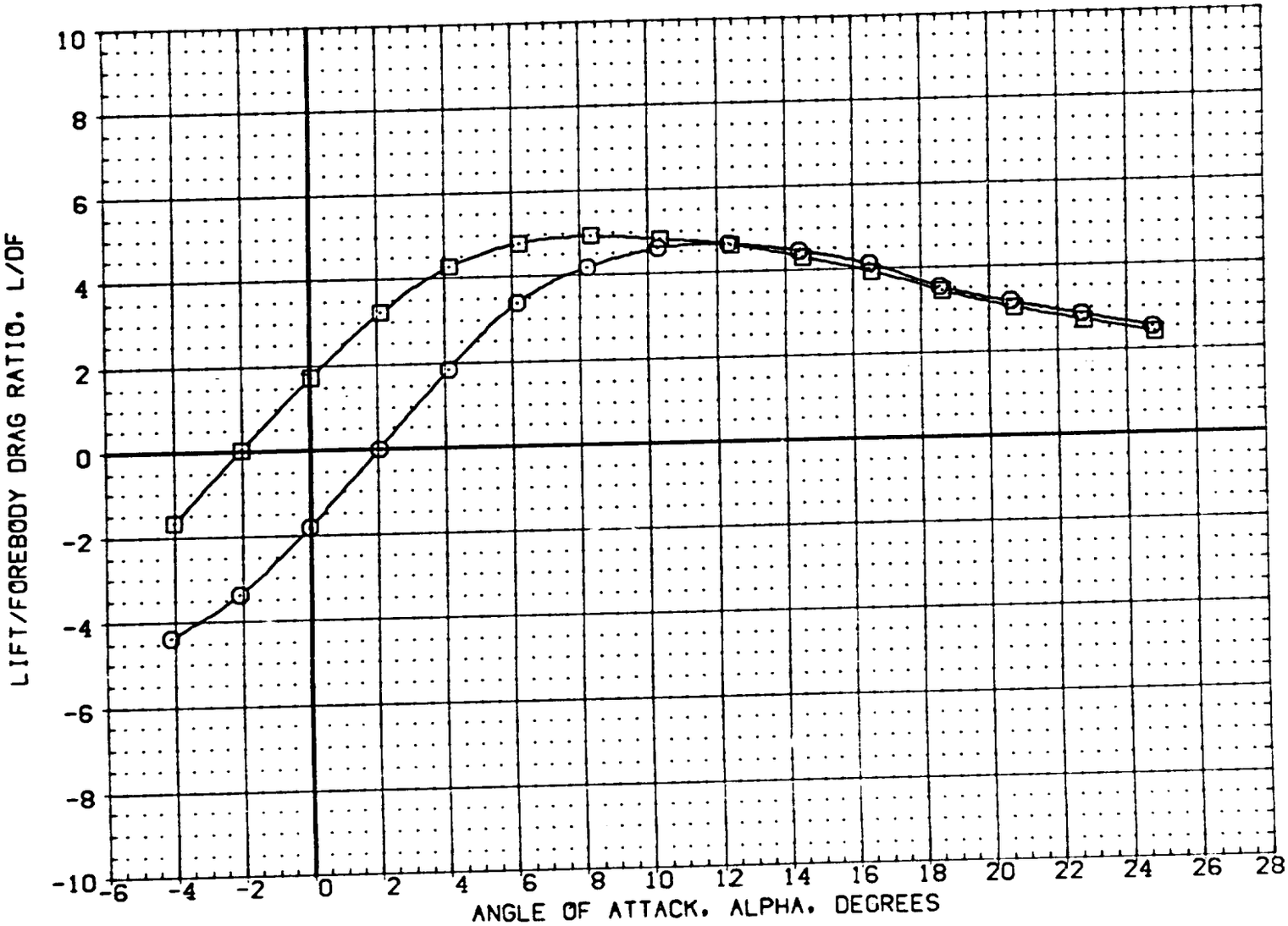


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP143)	○	0A21	B17C7H13M4F5	V107E23V7R6X9
(IDP154)	□	0A21	B17C7H13M4F5	V107E23V7RFX9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

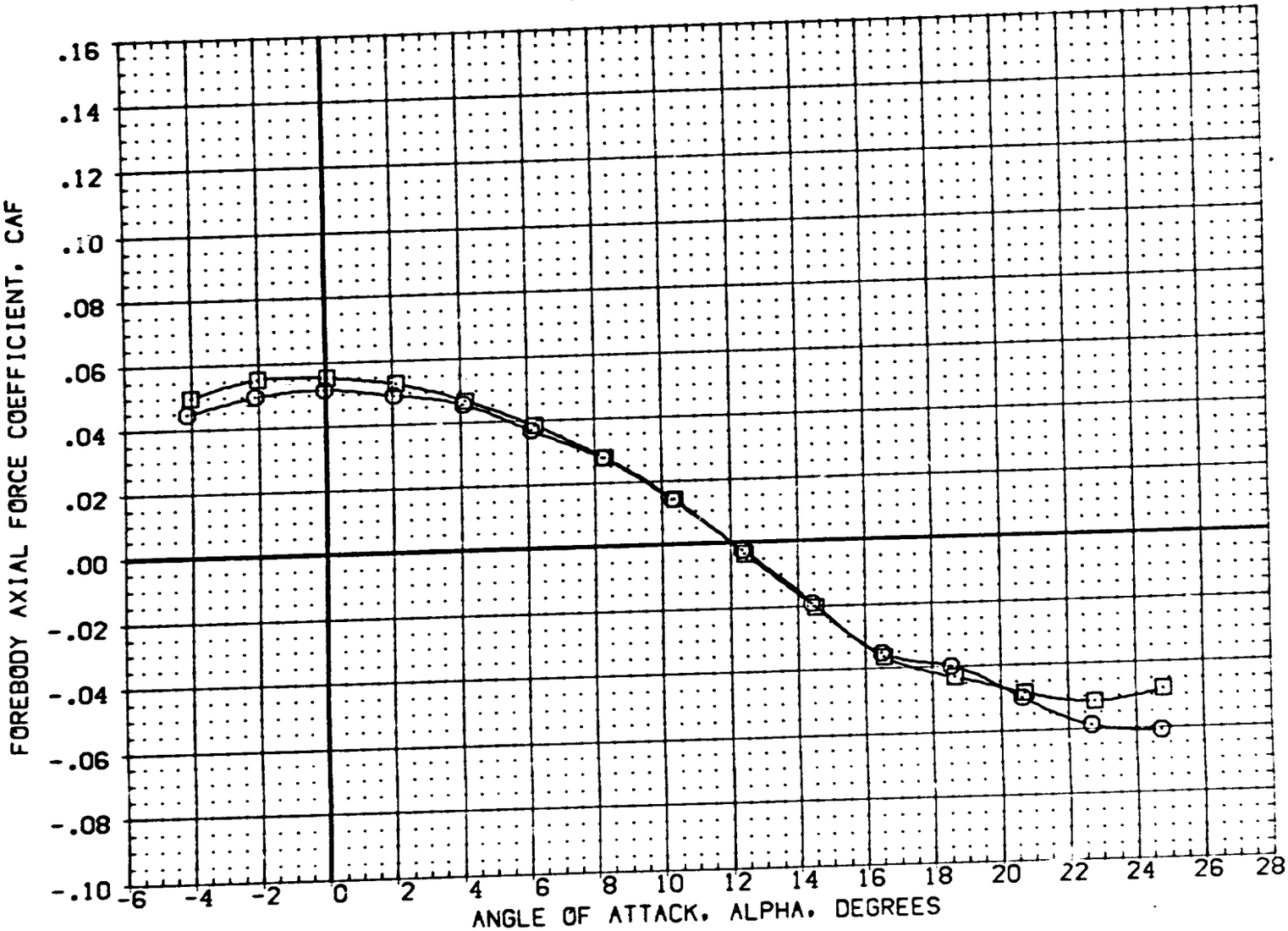


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
DP:43:	○	DA2I	B17C7H13M4F5	W107E23V7R6X9
DP:54:	□	DA2:	B17C7H13M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

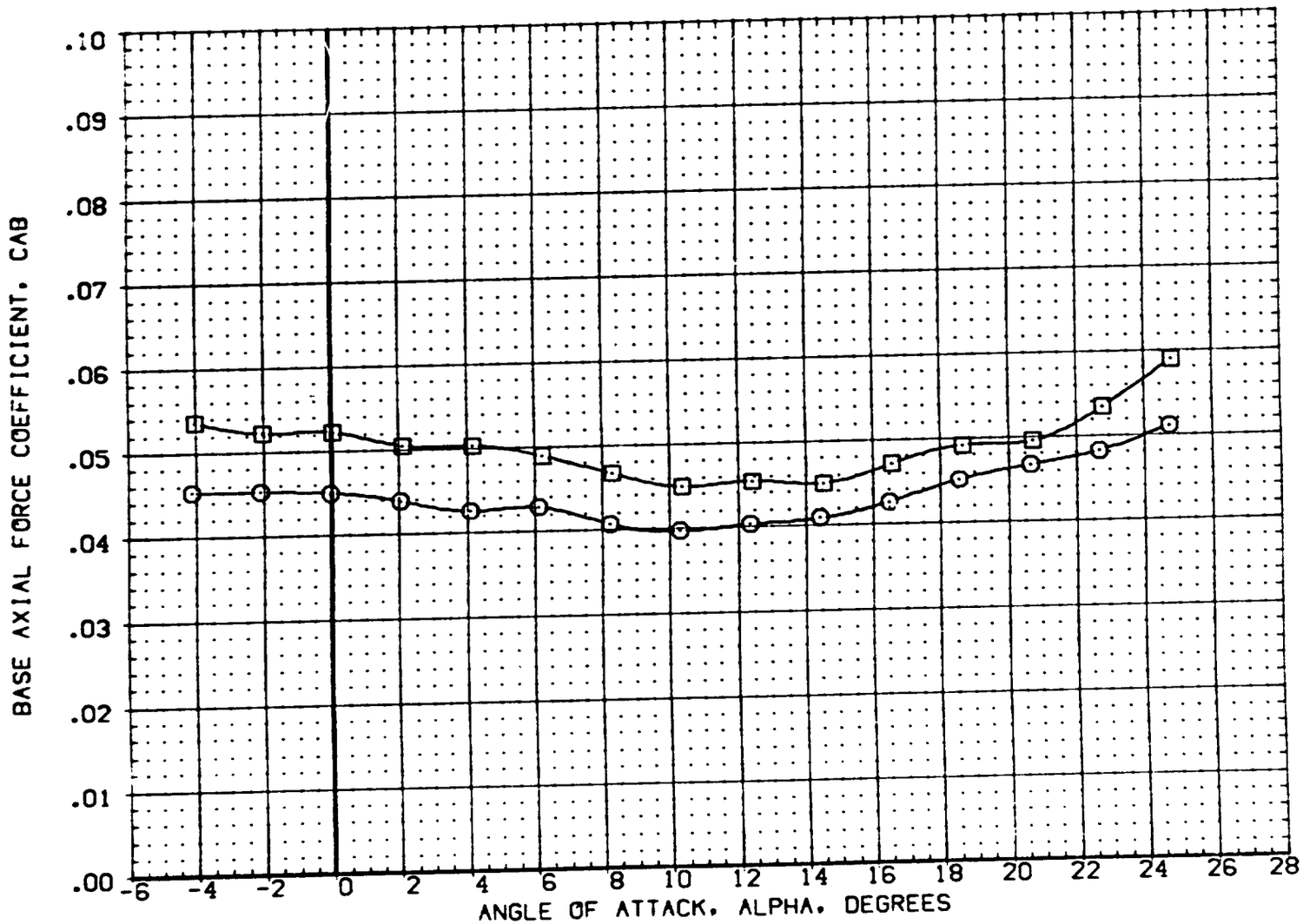


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP143)	○	0A21	B17C7H13M4F5	V107E23V7R6X9
(IDP154)	□	0A21	B17C7H13M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

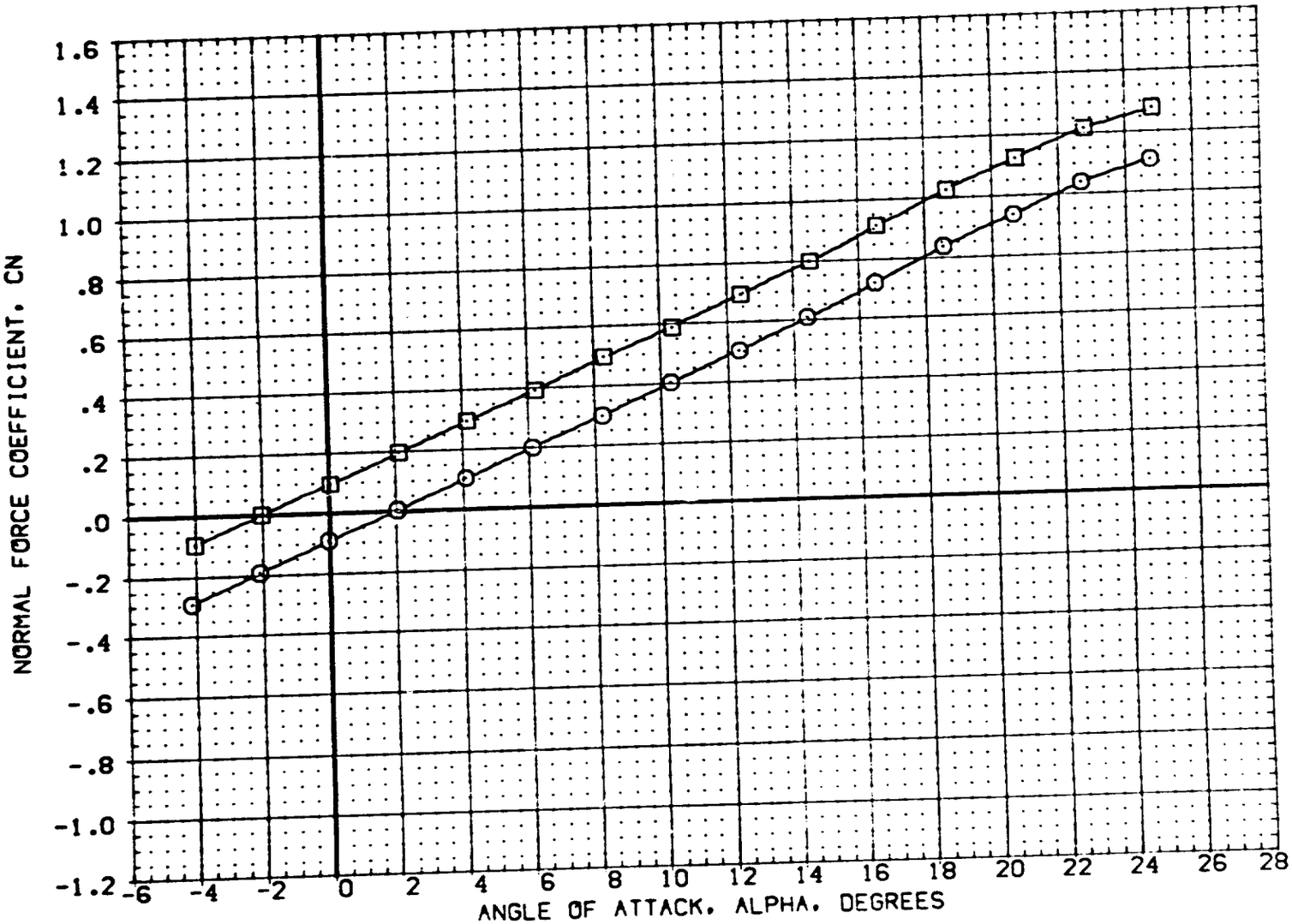


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

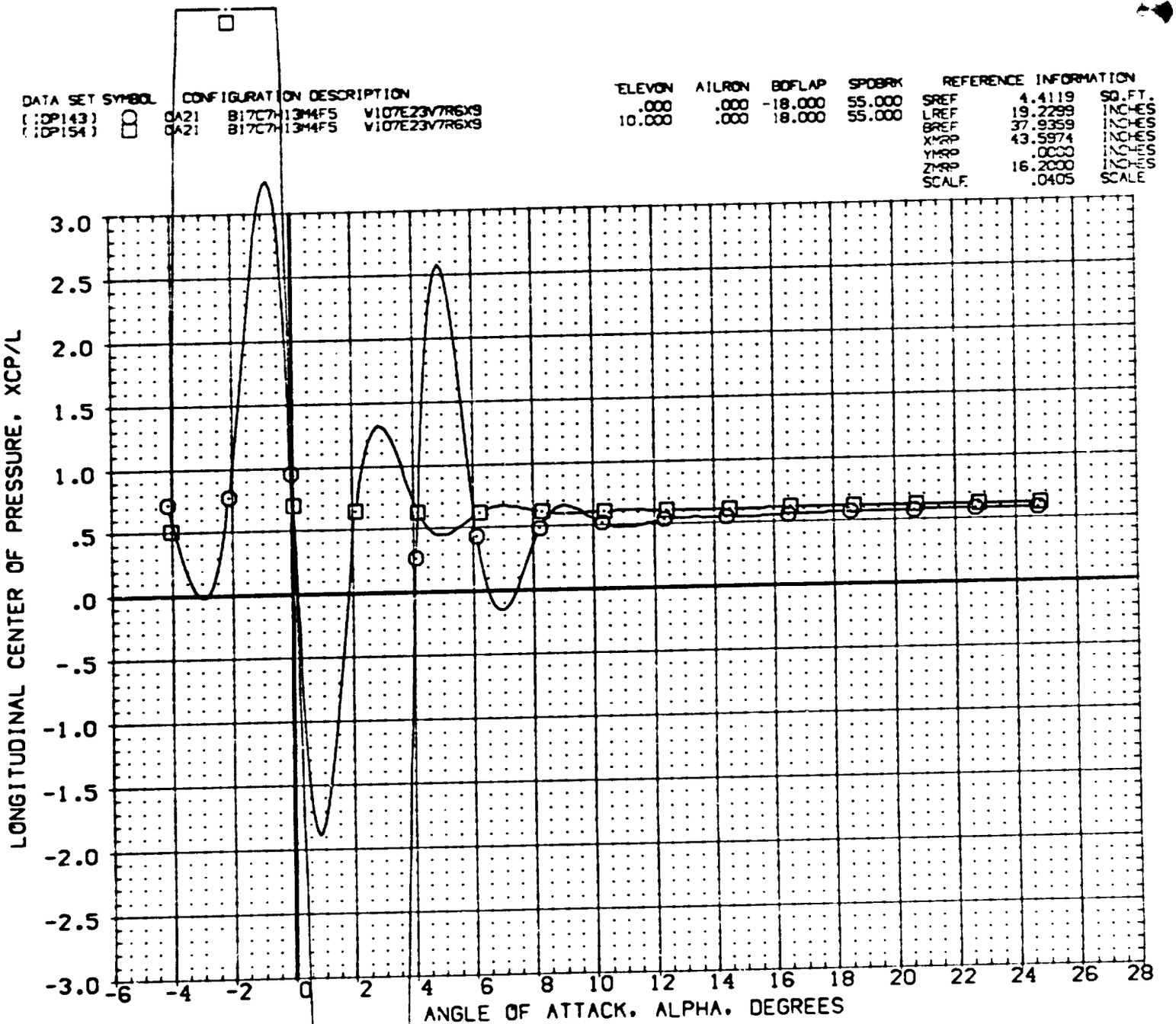


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
(IDP143)	○	0A21	B17C7H13M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP154)	□	0A21	B17C7H13M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

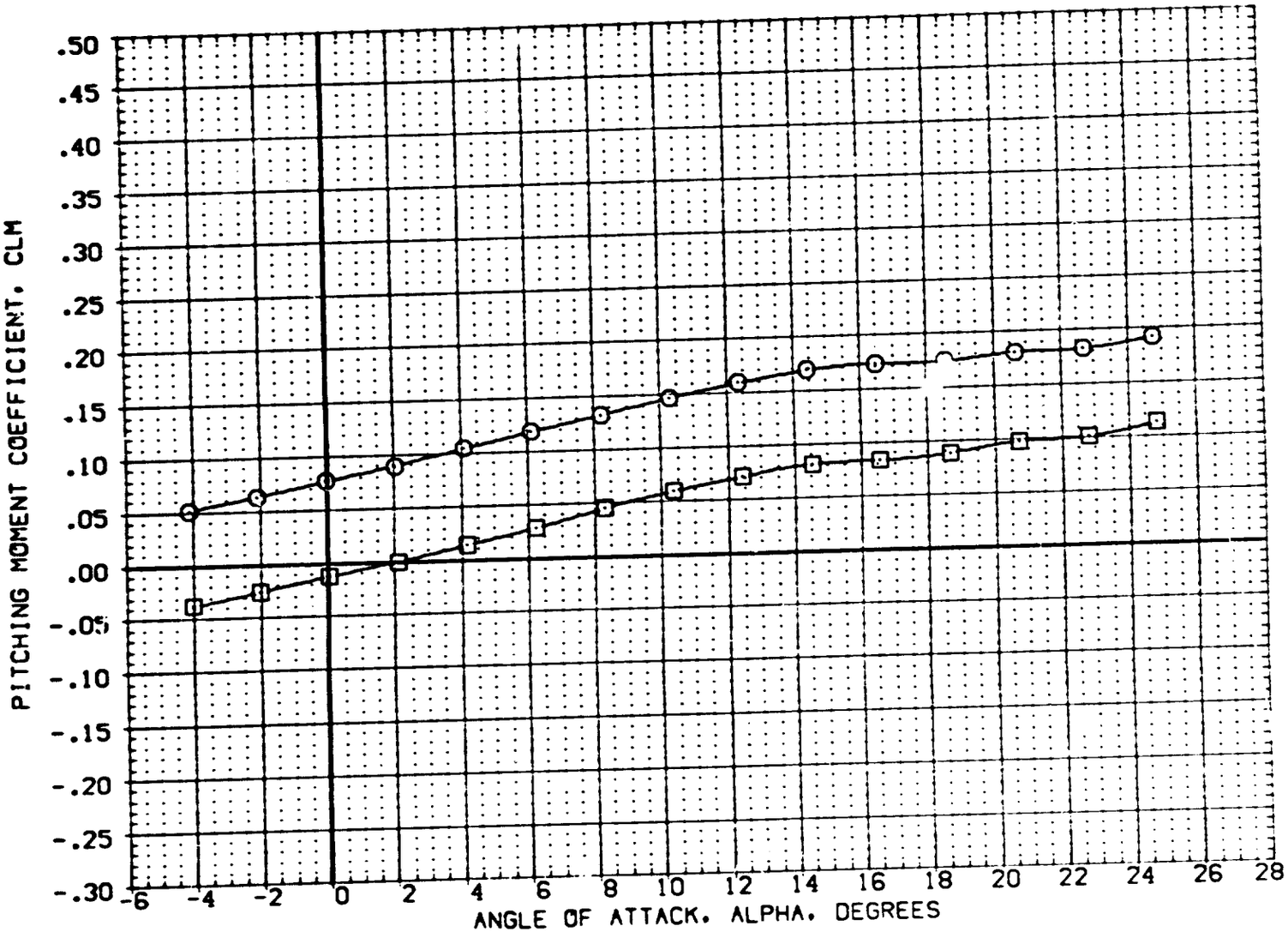


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(DDP154) ○ 0A21 B:7C7H13M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5174	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

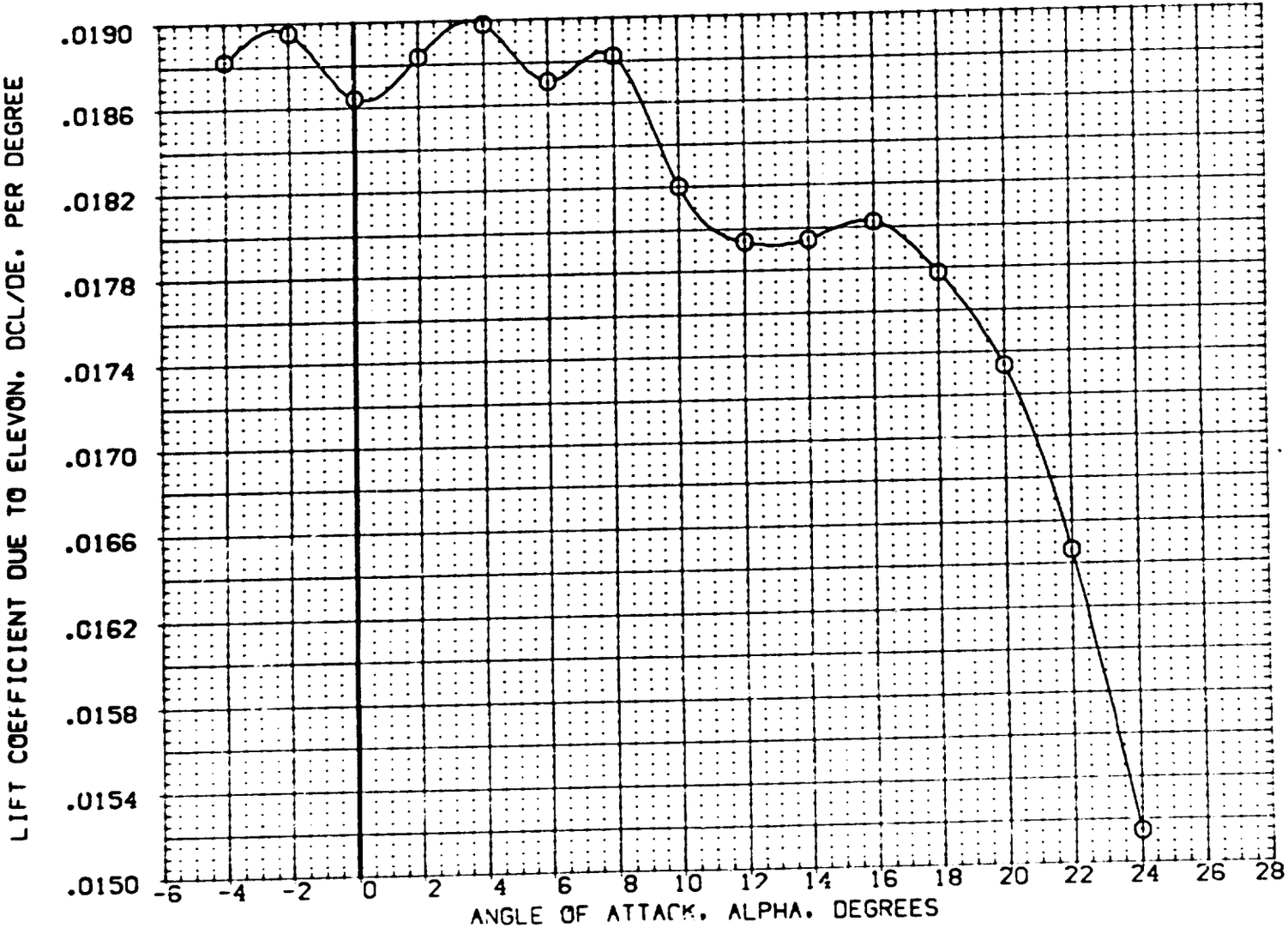


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP154) ○ 0A21 B17C7H13M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
CREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

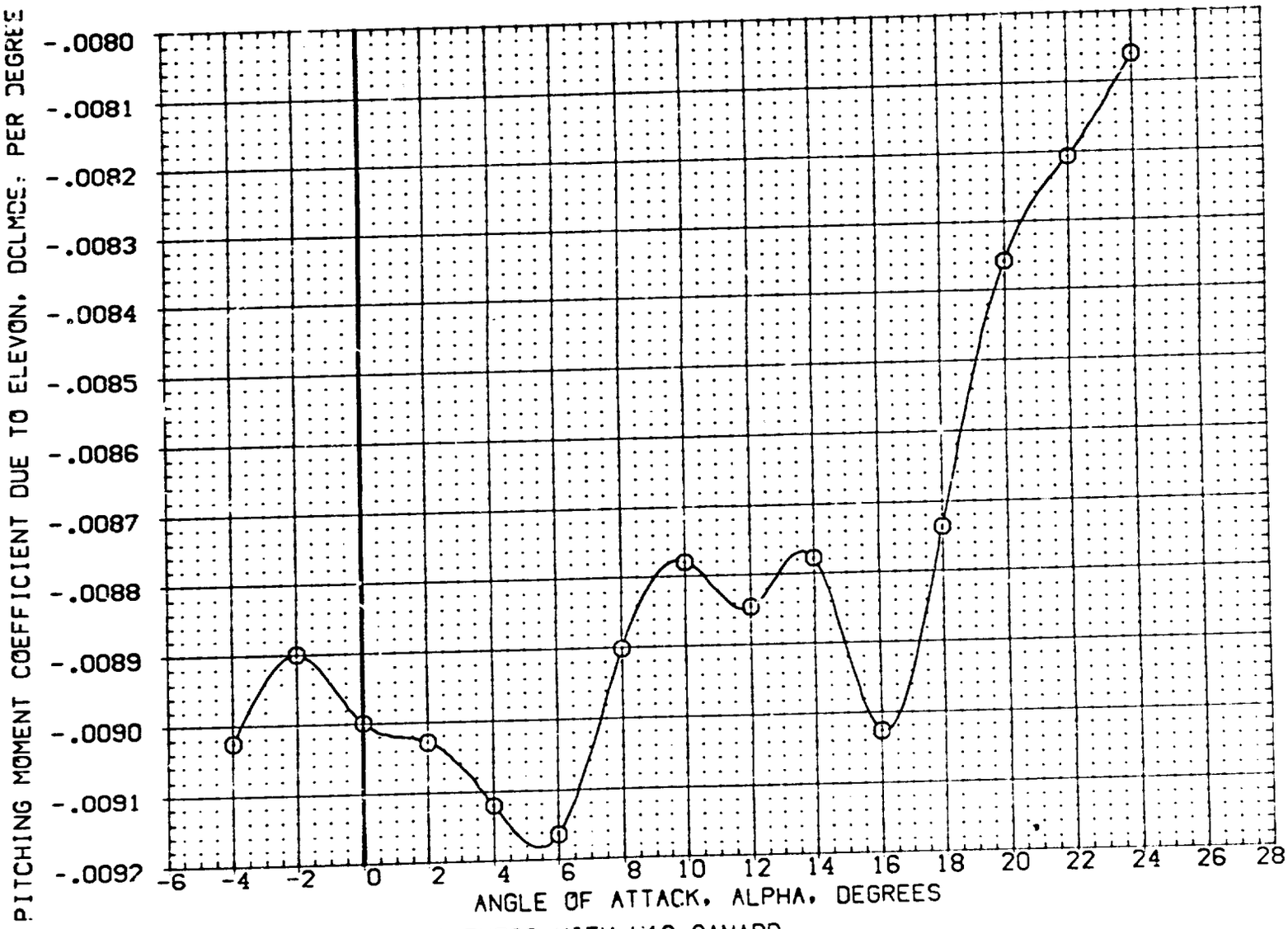


FIGURE 27 ELEVON EFFECTIVENESS WITH H13 CANARD

(A)MACH = .16

DATA SE.	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP166)	○	0A21	B17C7H14M4F5	W107E23V7R6	X9
(IDP168)	□	0A21	B17C7H14M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

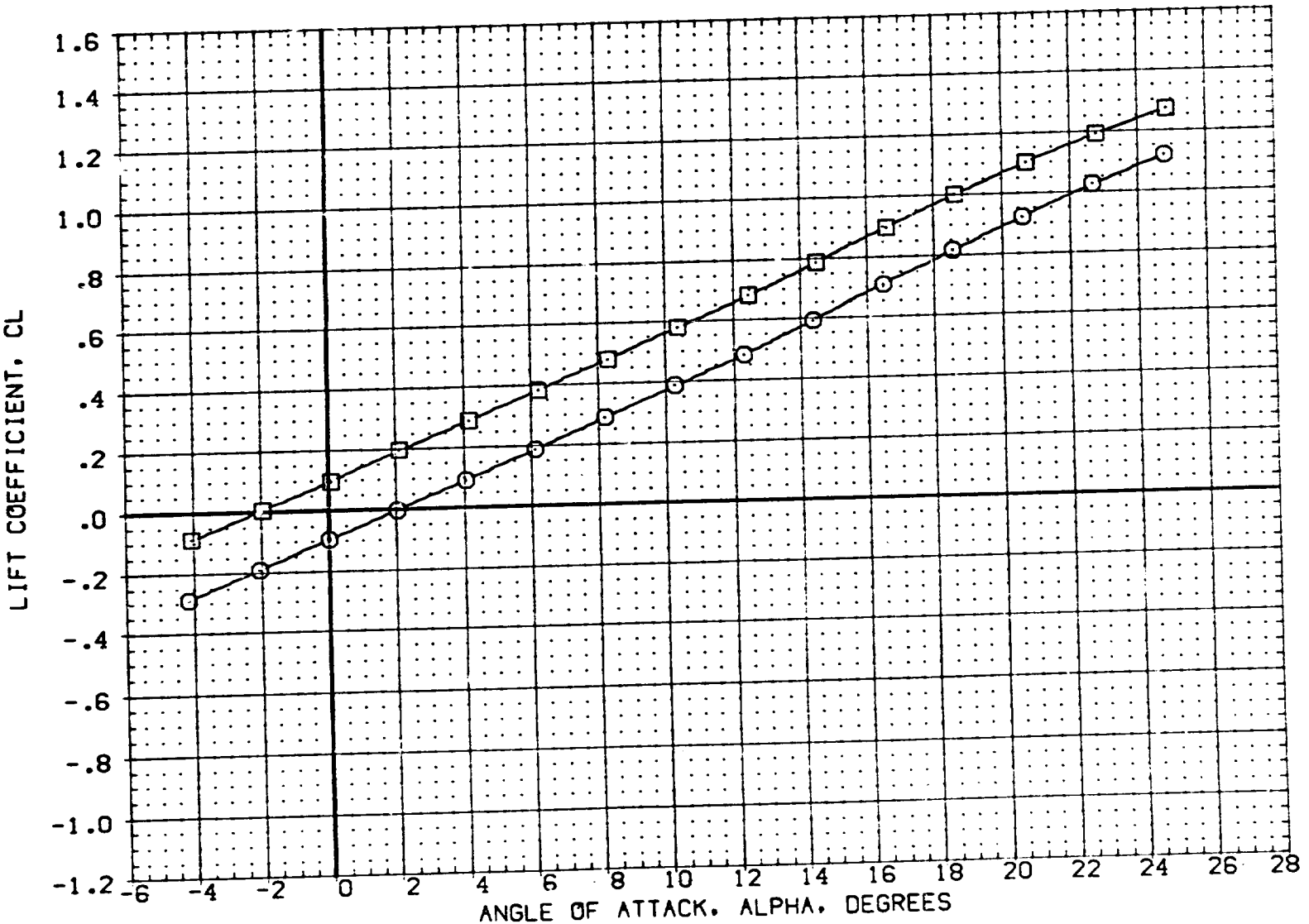


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP166) ○	0A21	B17C7H14M4F5	V107E23V7R6	X9
(IDP168) □	0A21	B17C7H14M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

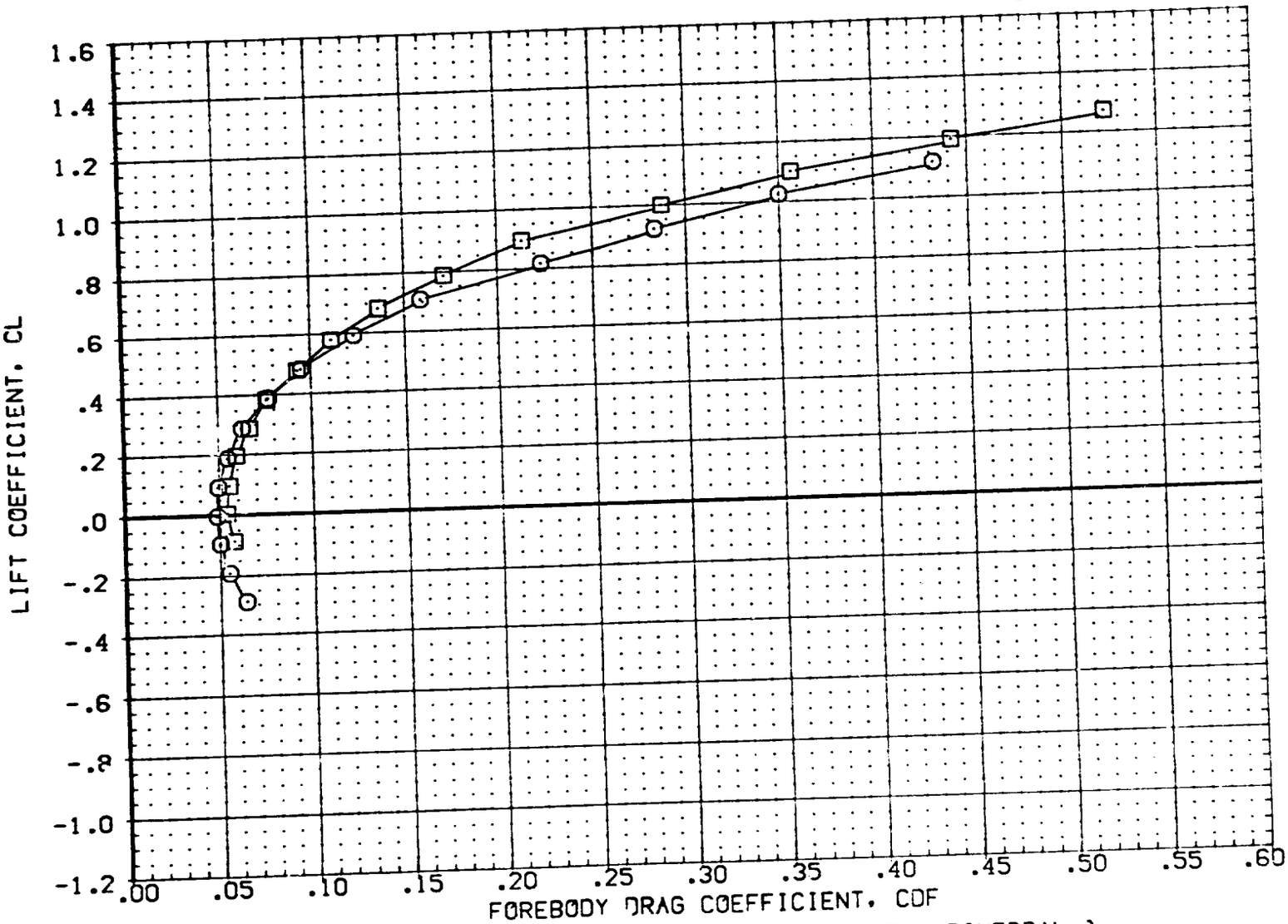


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPDBRK
[IDP166]	○	0A21	B17C7H14M4F5	W107E23V7R6	X9	.000	.000	-18.000	55.000
[IDP168]	□	0A21	B17C7H14M4F5	W107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

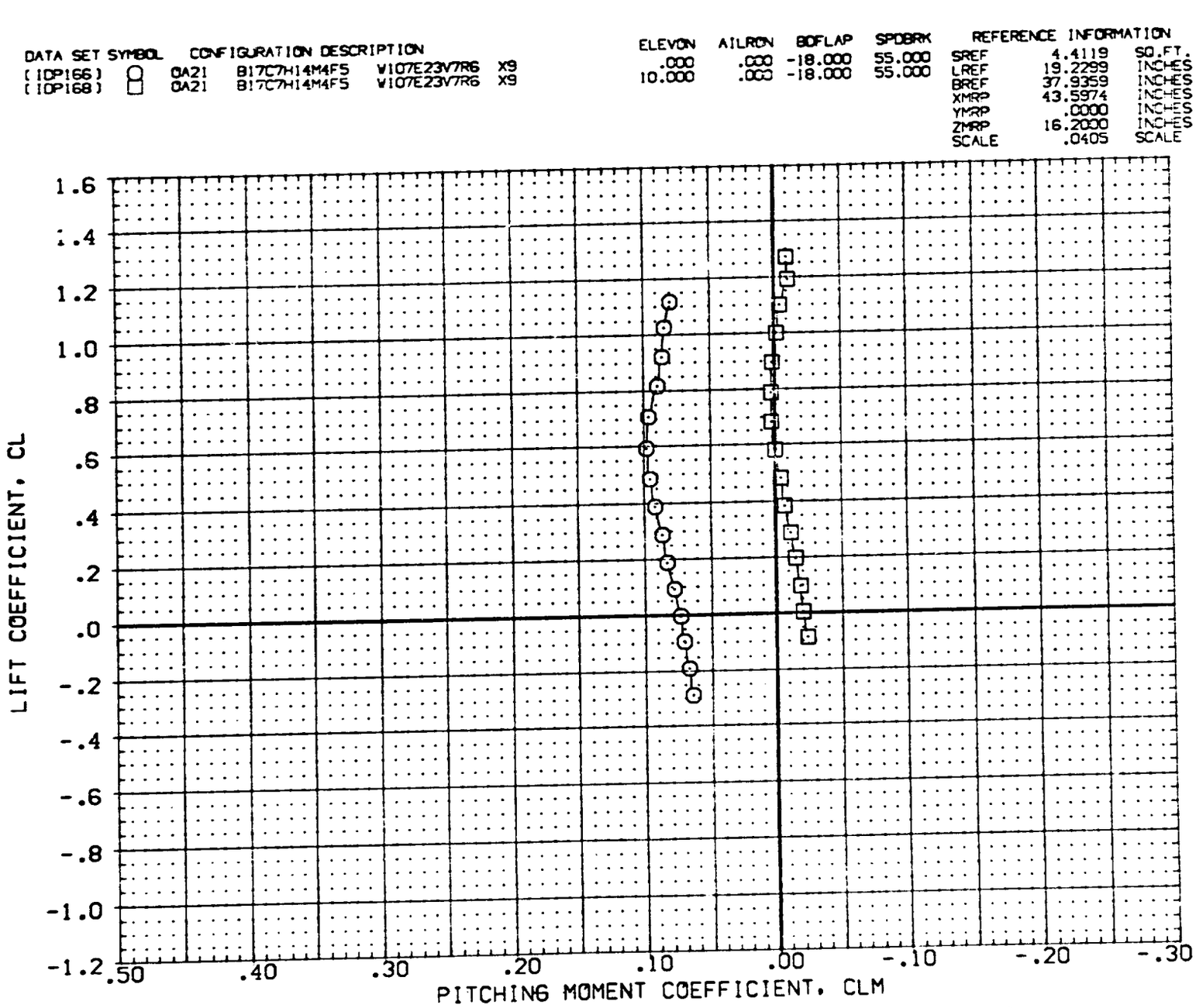


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(IDP166) ○	0A21	B17C7H14M4F5	W:07E23V7R6	X9	.000	.000	-18.000	55.000
(IDP168) □	0A21	B17C7H14M4F5	W:07E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

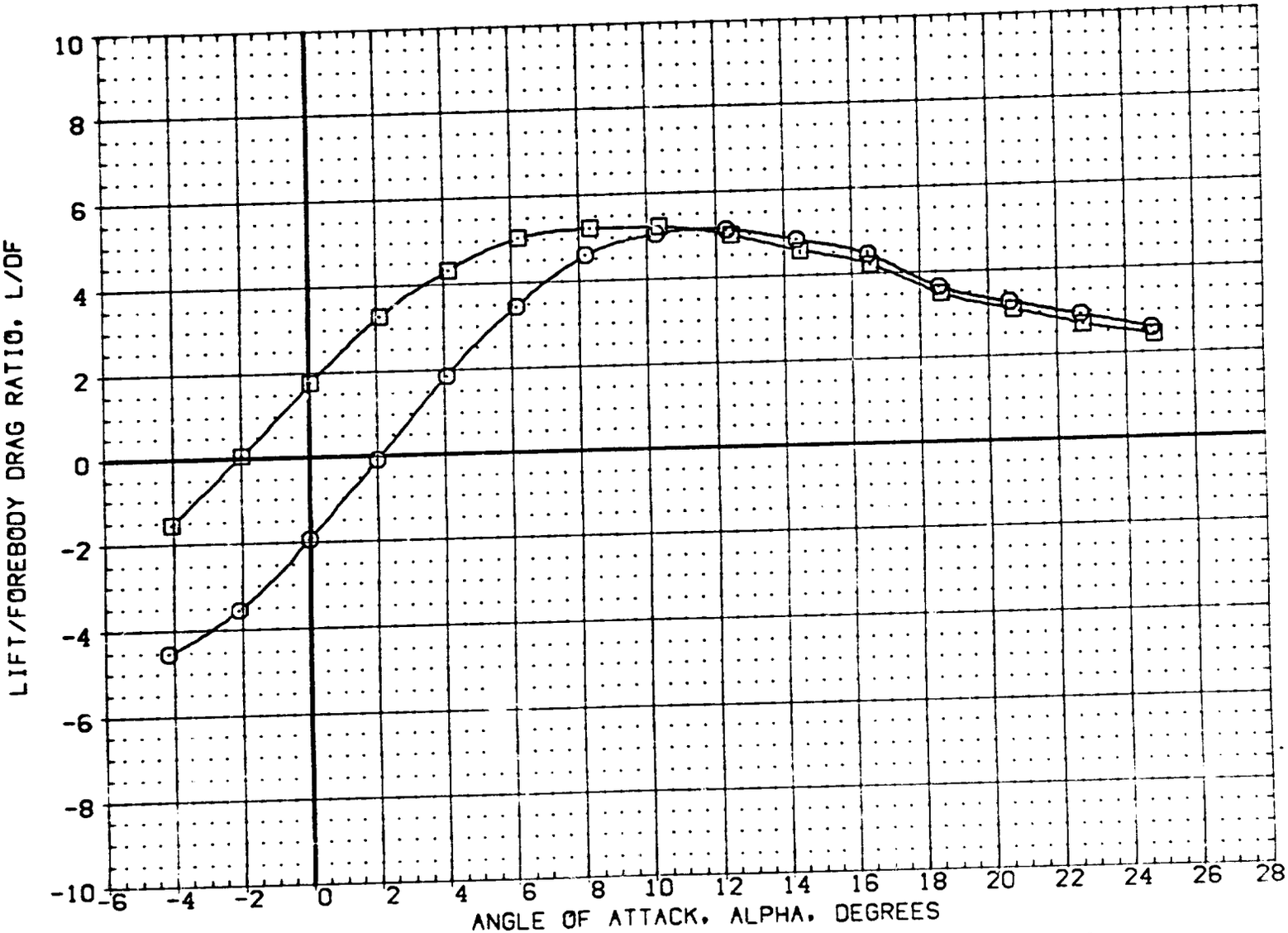


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION		
[IDP166]	○	0A21	B17C7H14M4F5	W107E23V7R6	X9
[IDP168]	□	0A21	B17C7H14M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

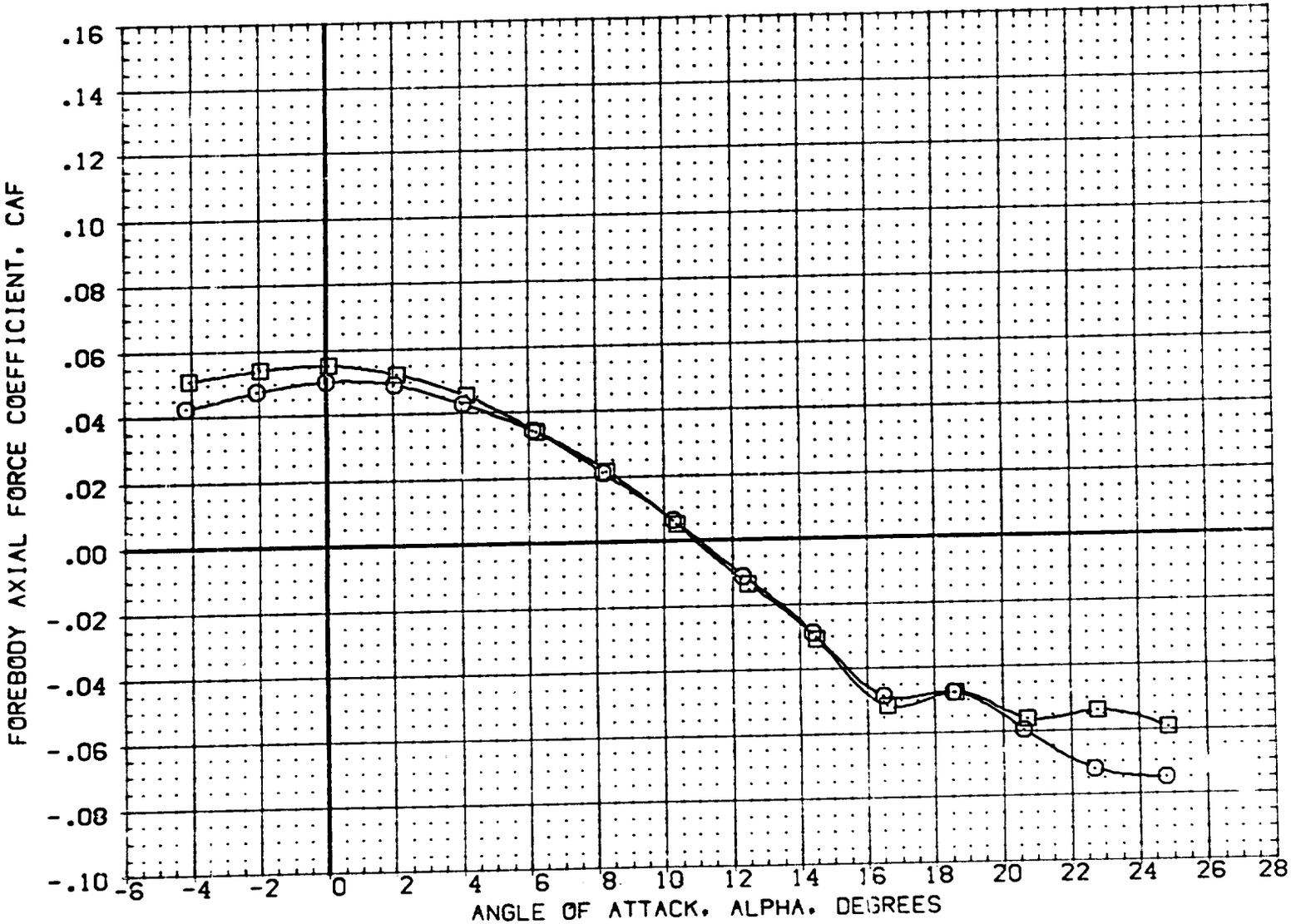


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
[IDP166]	○	0A21	B17C7H14M4F5	V107E23V7R6	X9
[IDP168]	□	0A21	B17C7H14M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

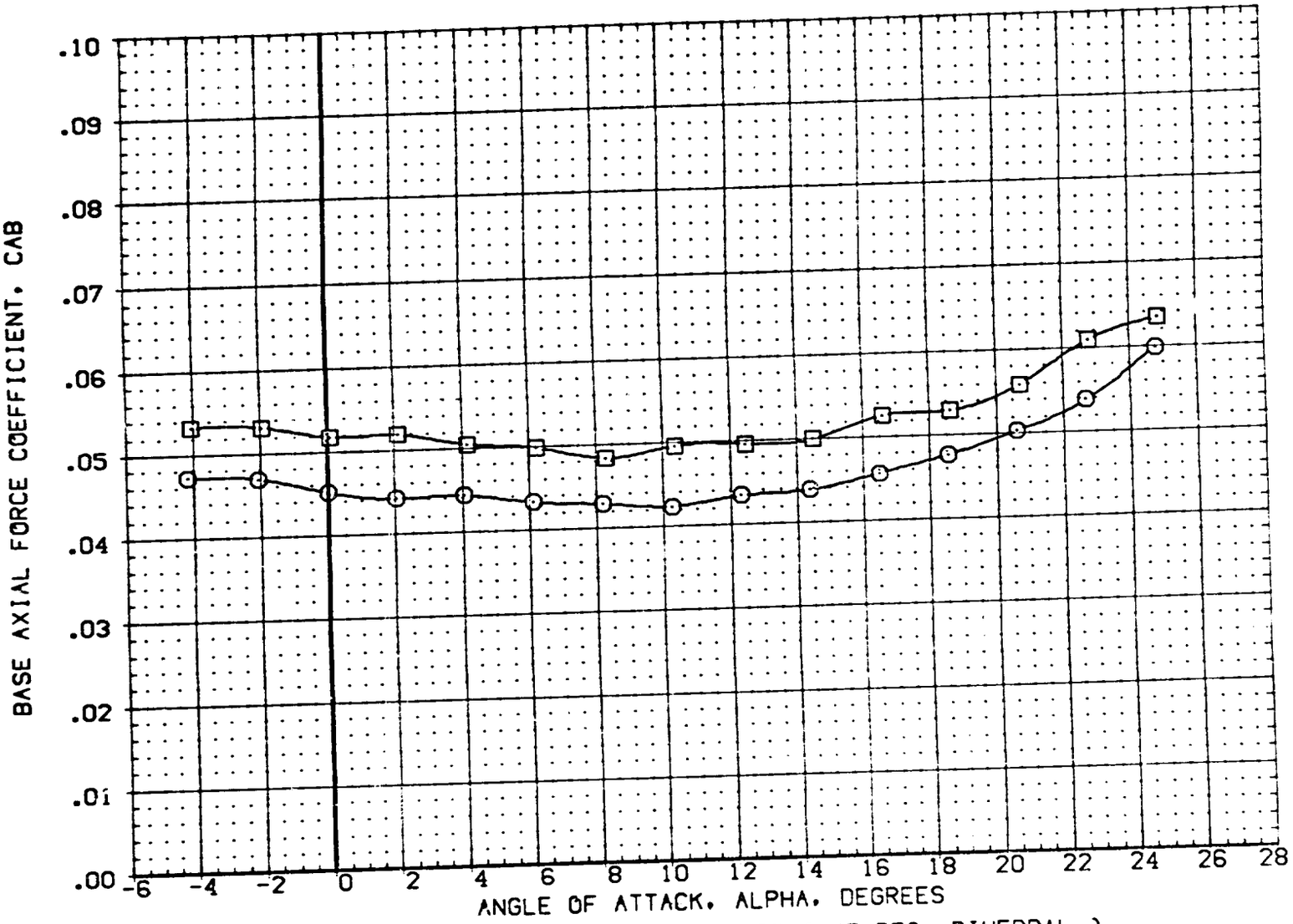


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION		
(IDP166)	○	0A21	B17C7H14M4F5	W107E23V7R6	X9
(IDP168)	□	0A21	B17C7H14M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

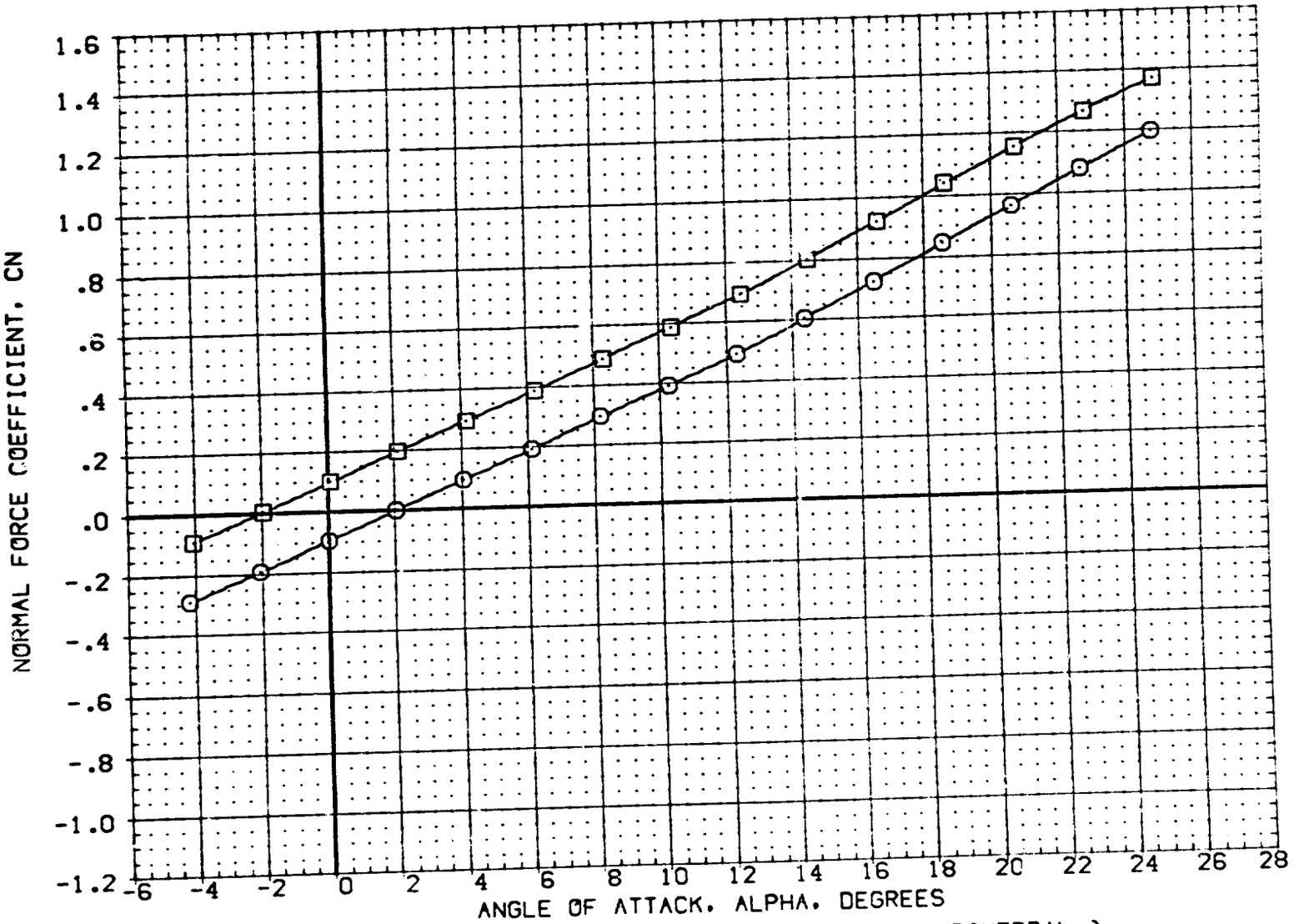


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

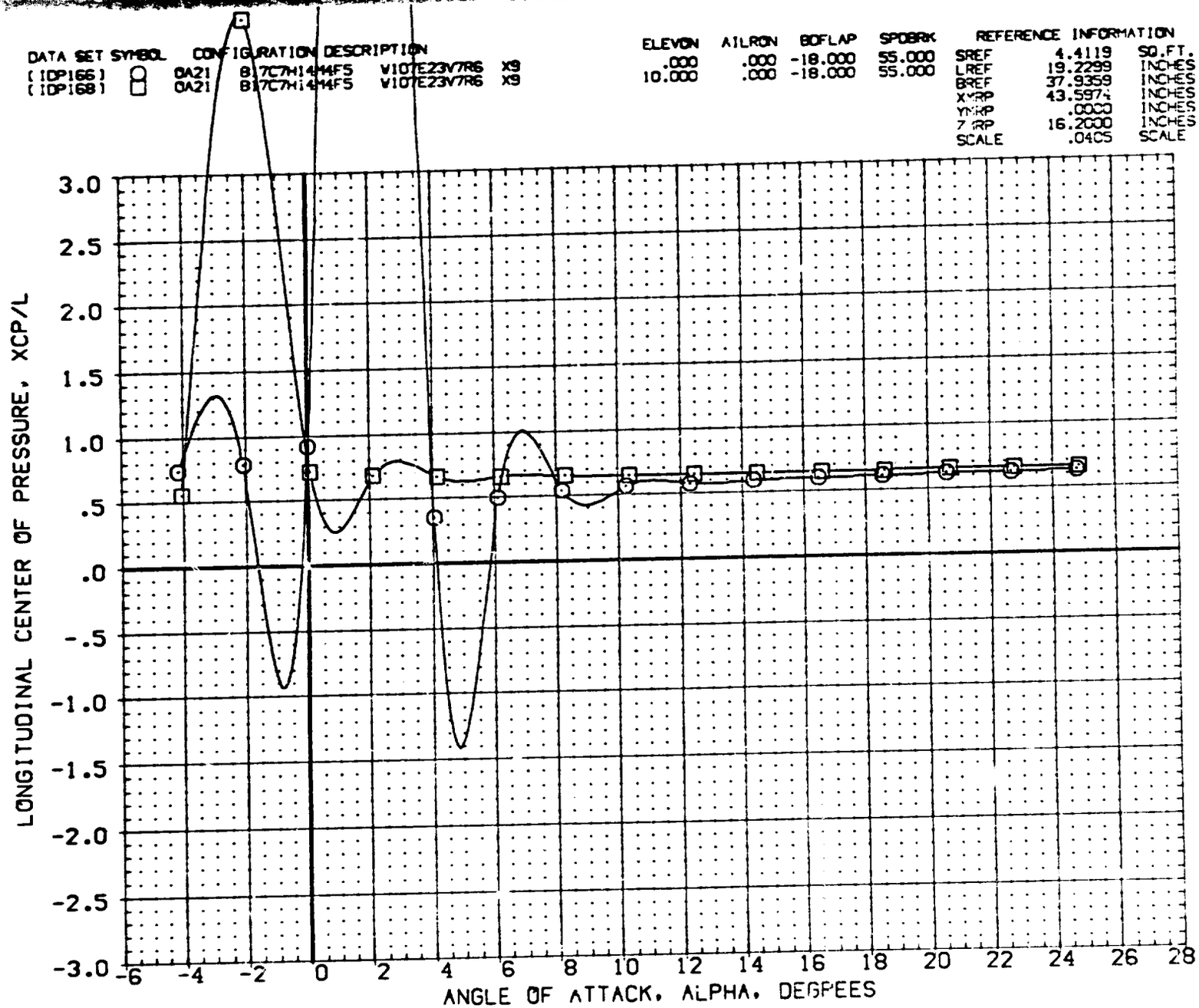


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP166]	○	5A21	B17C7H14M4F5	W107E23V7R6	X9
[IDP168]	□	6A21	B17C7H14M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

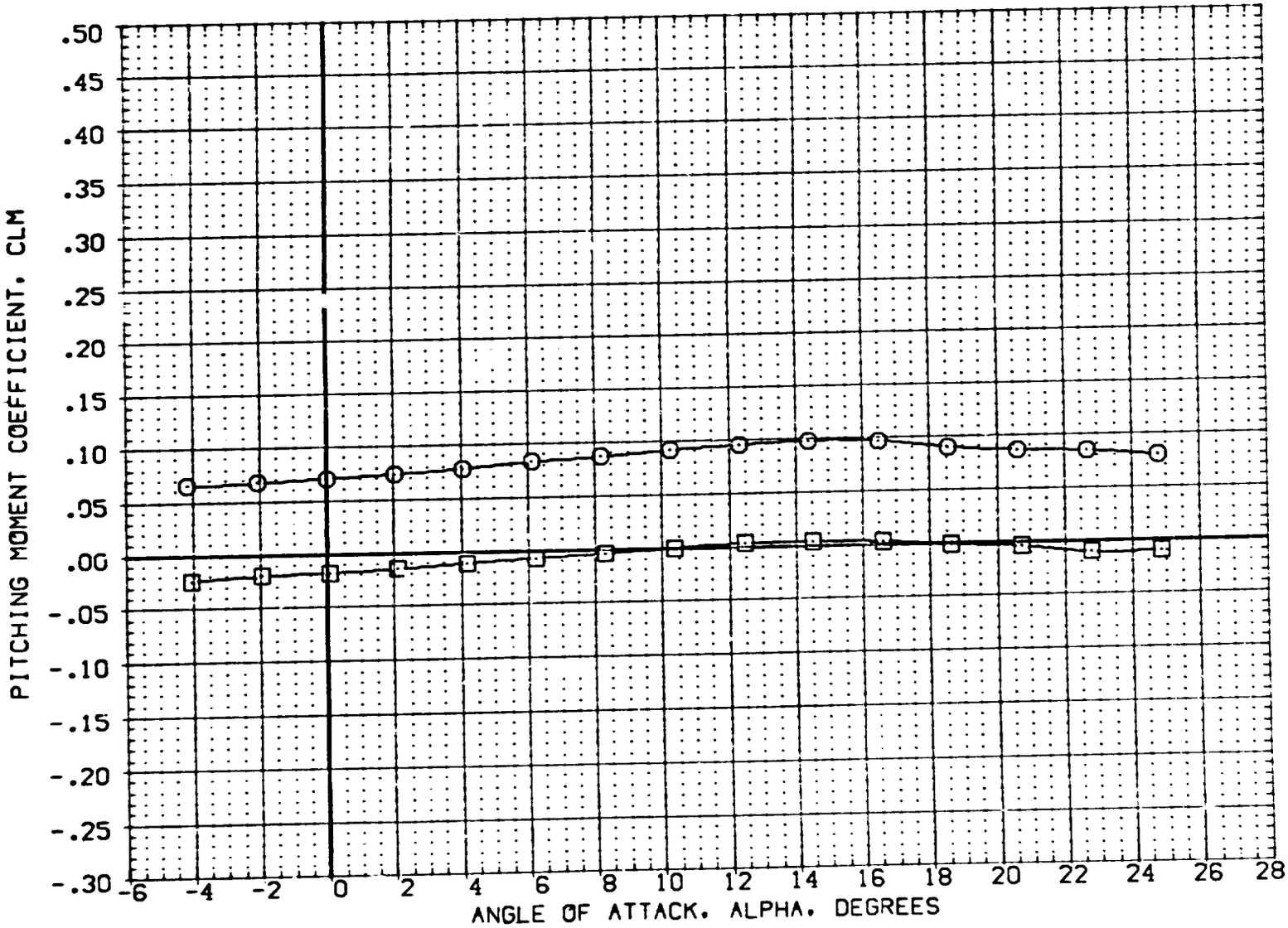


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP168) O 0A21 B17C7H14M4F5 V107E23V7R6 X9

MAXELE	DELELE	90FLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

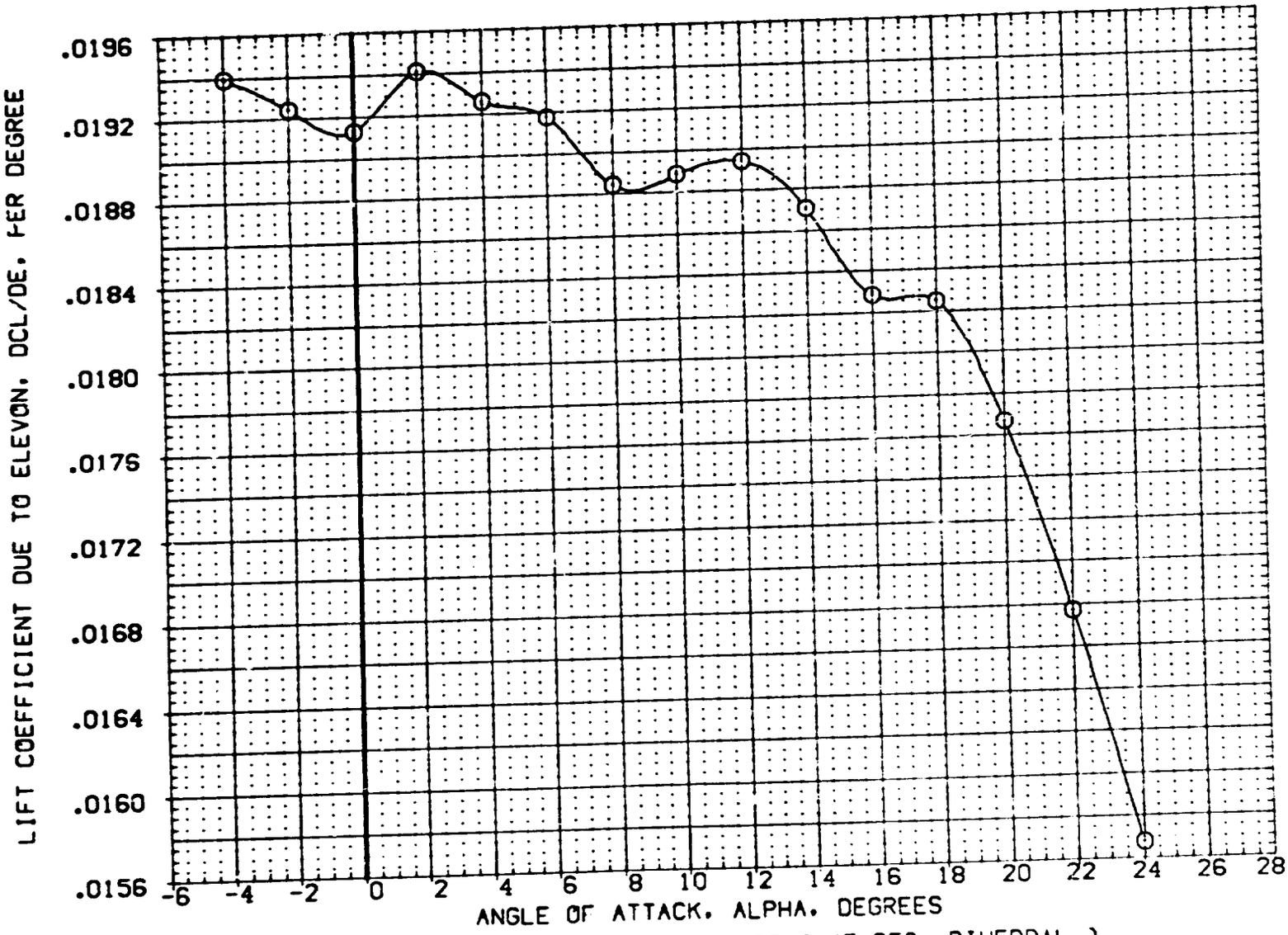


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[COP168] ○ 0A21 B17C7H14M4F5 W107E23V7R6 X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

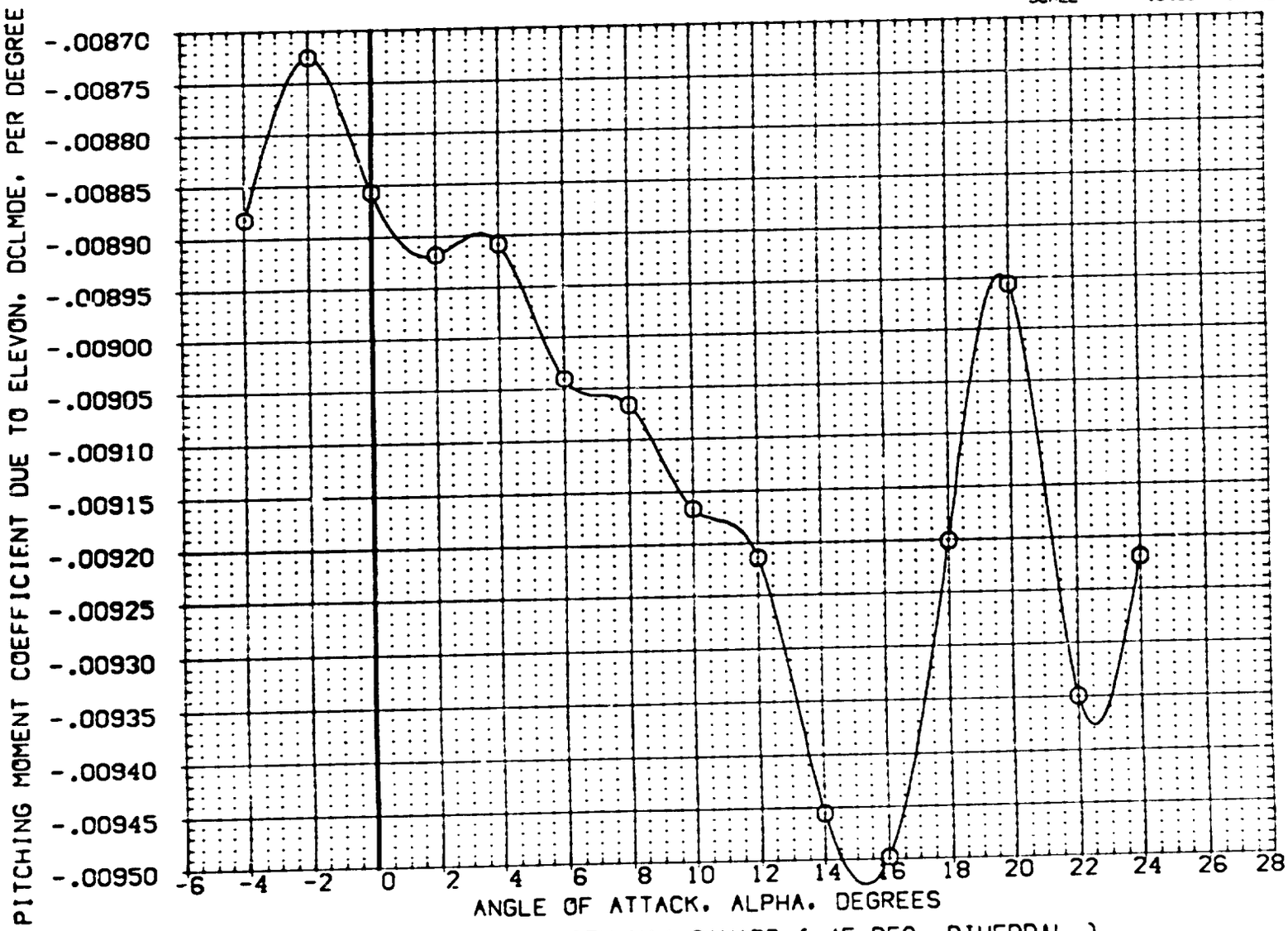


FIGURE 28 ELEVON EFFECTIVENESS WITH H14 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[1DP163]		0A21	B17C7H15M4FS	V107E23V7R6	X9
[1DP170]		0A21	B17C7H15M4FS	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

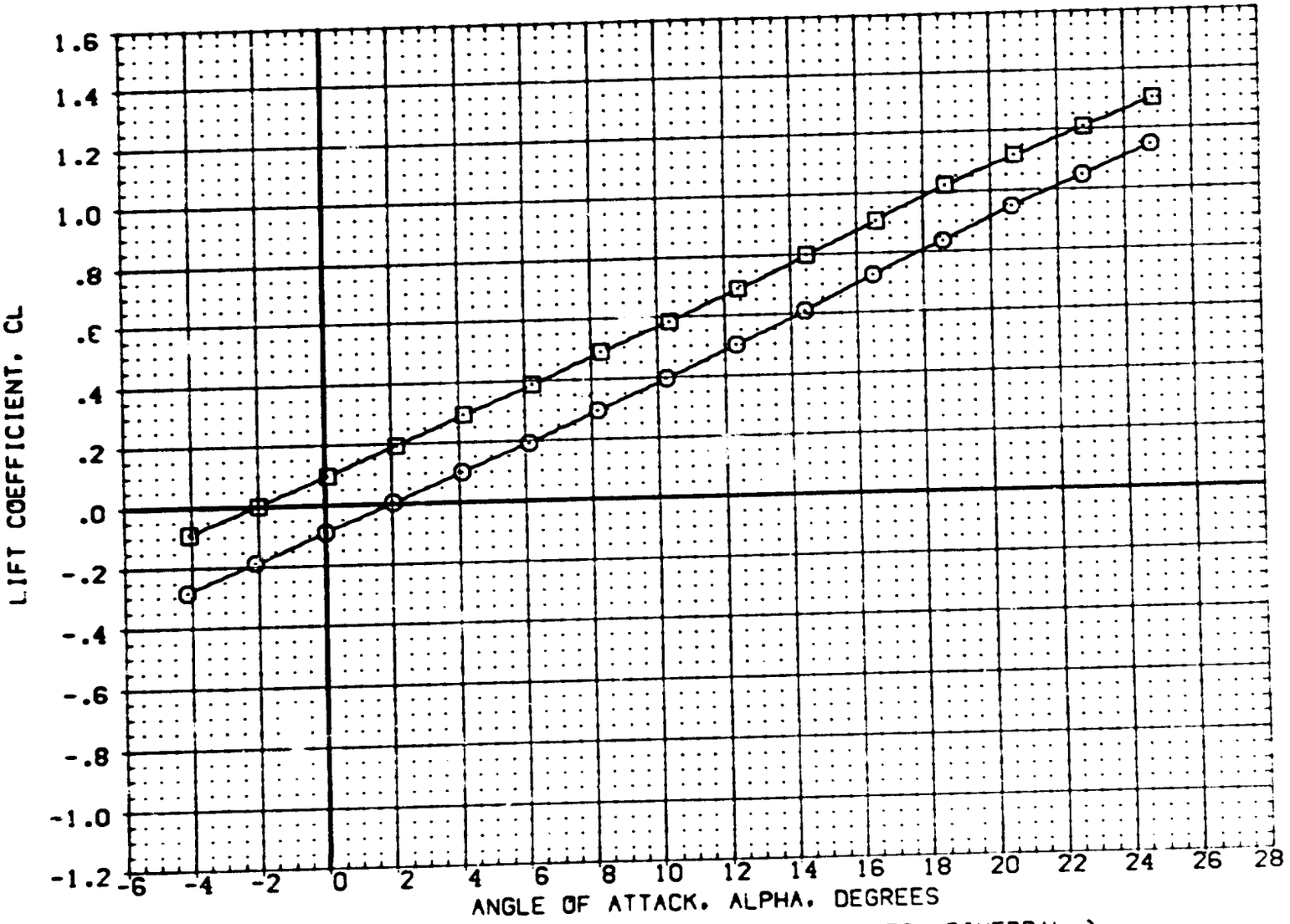


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBO.	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
[IDP163]	0A21	B17C7H15M4F5	W107E23V7R6	X9	.000	.000	-18.000	55.000
[IDP170]	0A21	B17C7H15M4F5	W107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

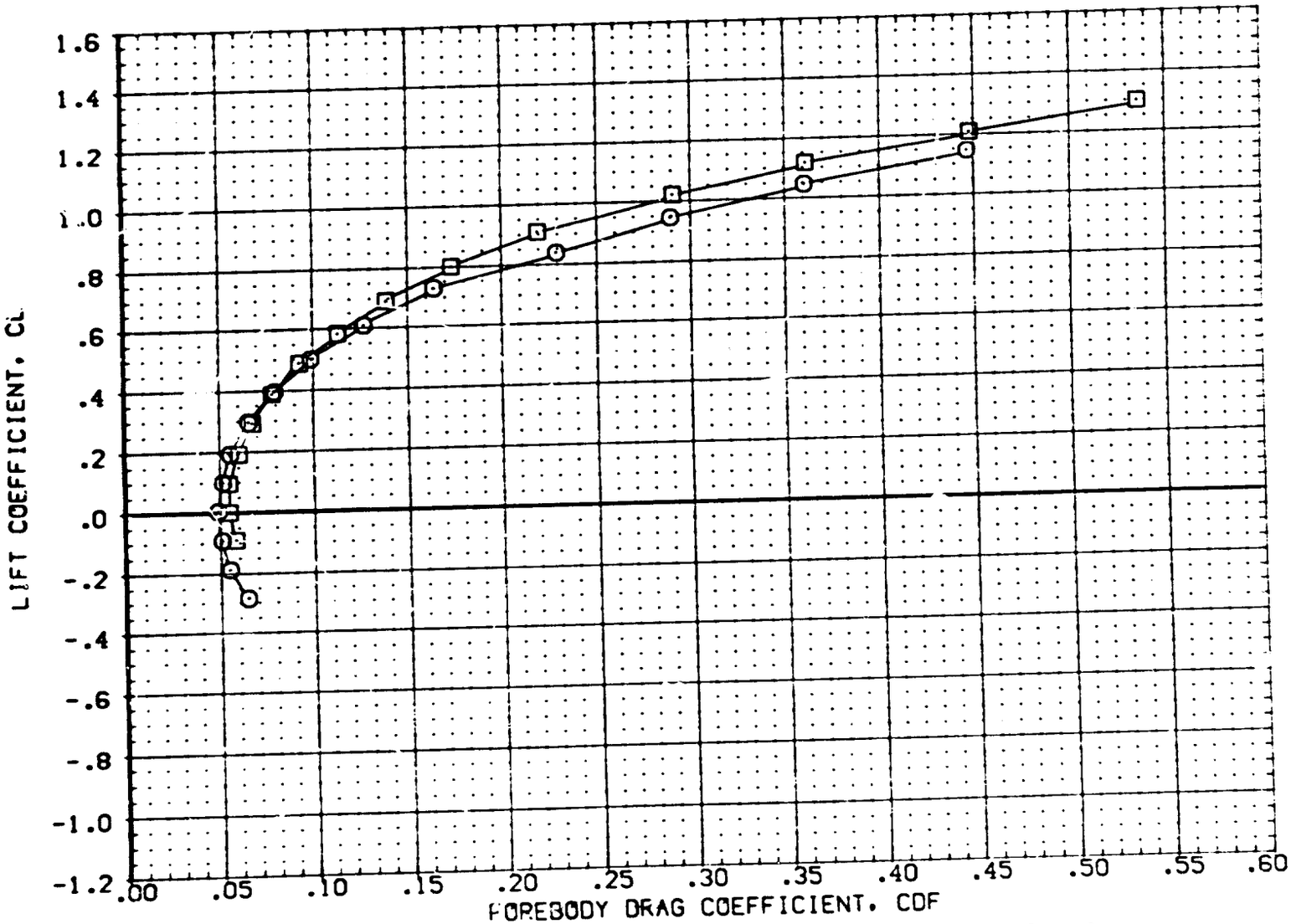


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION					ELEVON	AILRON	BDFLAP	SPOBRK
(IDP163)	⊖	0A21	B17C7H15H4F5	V107E23V7R6	X9	.000	.000	-18.000	55.000
(IDP170)	⊟	0A21	B17C7H15H4F5	V107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

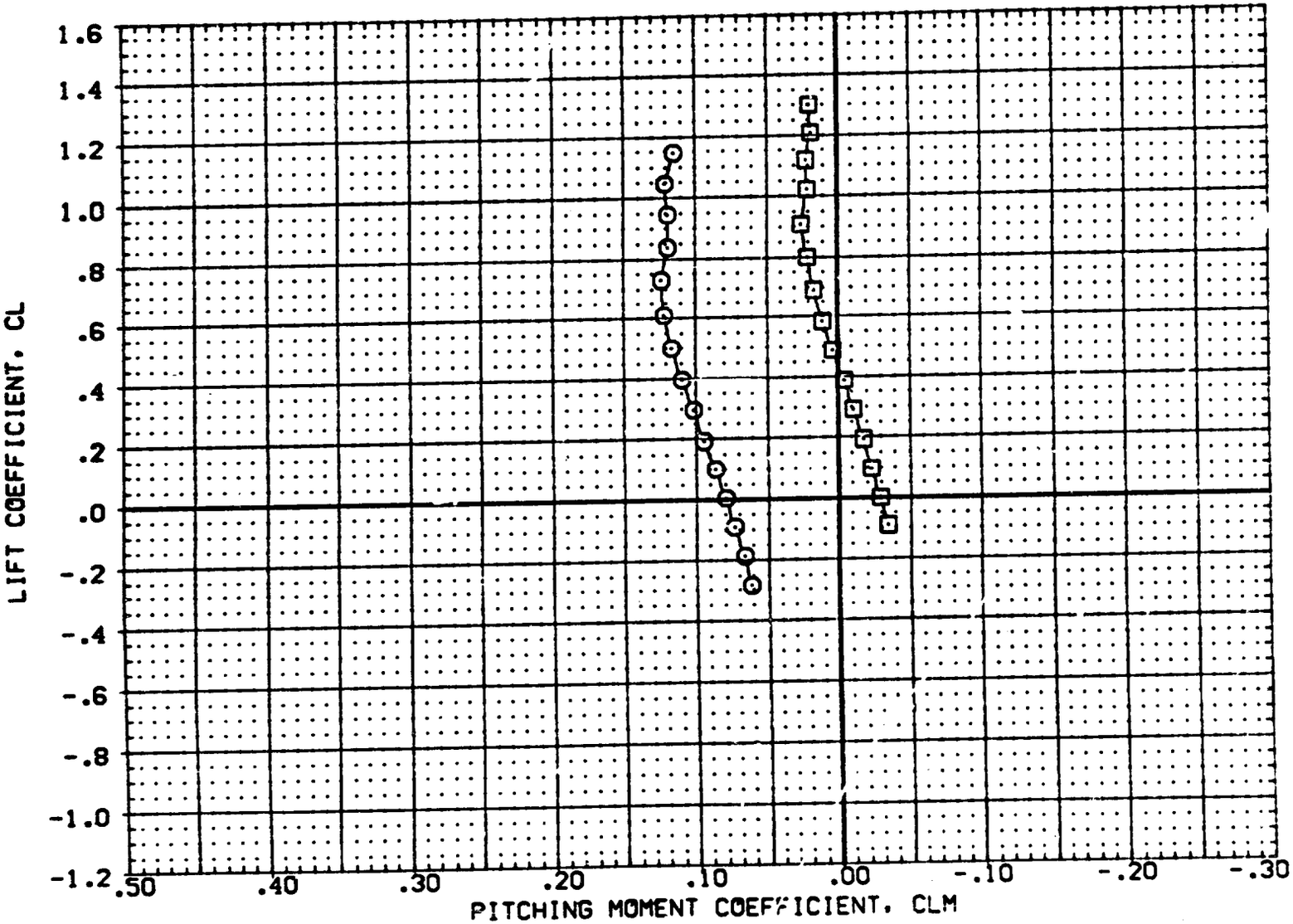


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP163)	○	0A21	B17C7H15M4F5	W107E23V7R6	X9
(IDP170)	□	0A21	B17C7H15M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

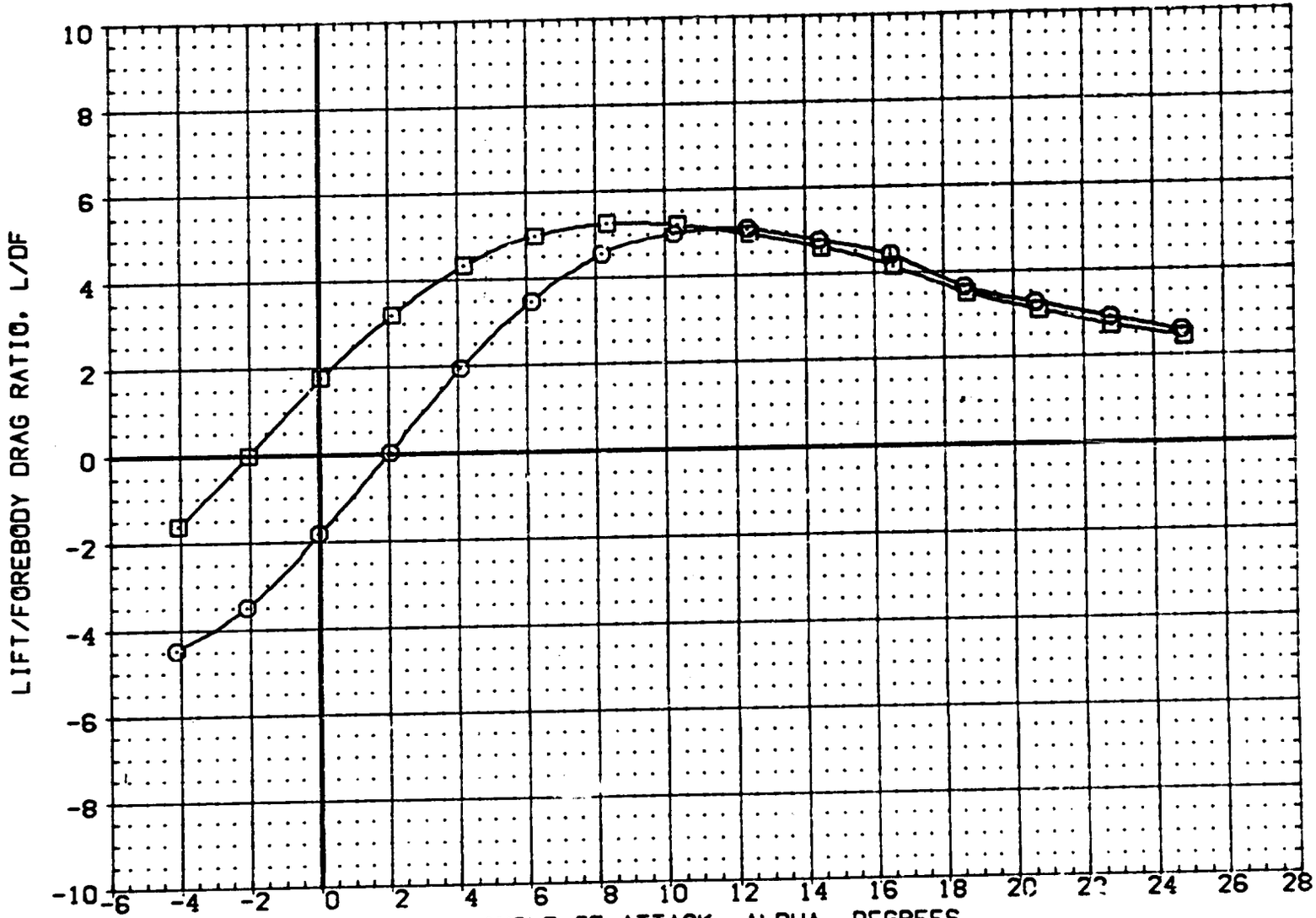


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
(IDP163)	○	0A21	B17C7H15M4F5	V107E23V7R6 X9	.000	.000	-18.000	55.000
(IDP170)	□	0A21	B17C7H15M4F5	V107E23V7R6 X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

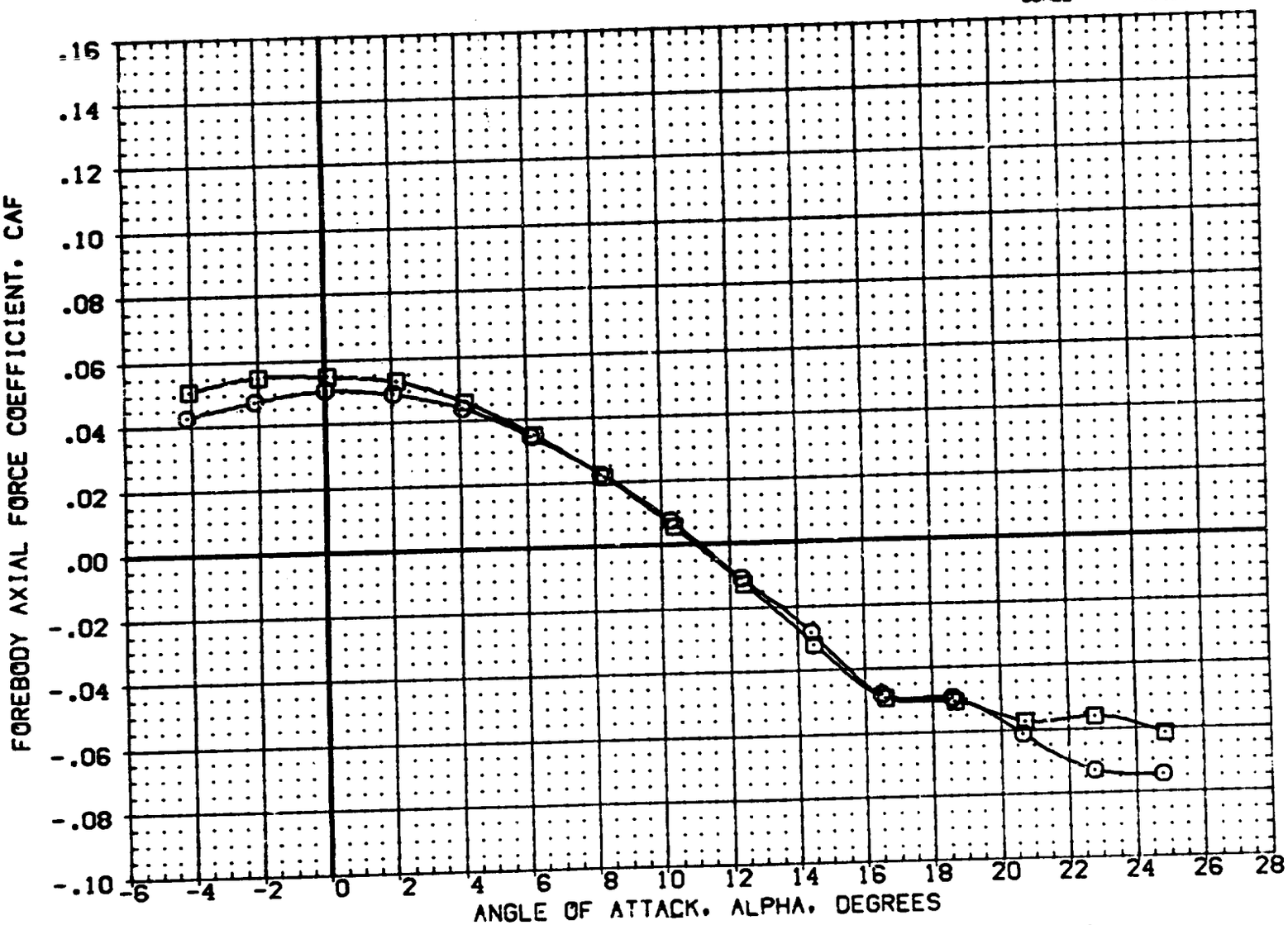


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP163]	○	0A21	B17C7H15M4F5	W107E23V7R6	X9
[IDP170]	□	0A21	B17C7H15M4F5	W107E23V7R6	X9

ELEVON	AILRON	RDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

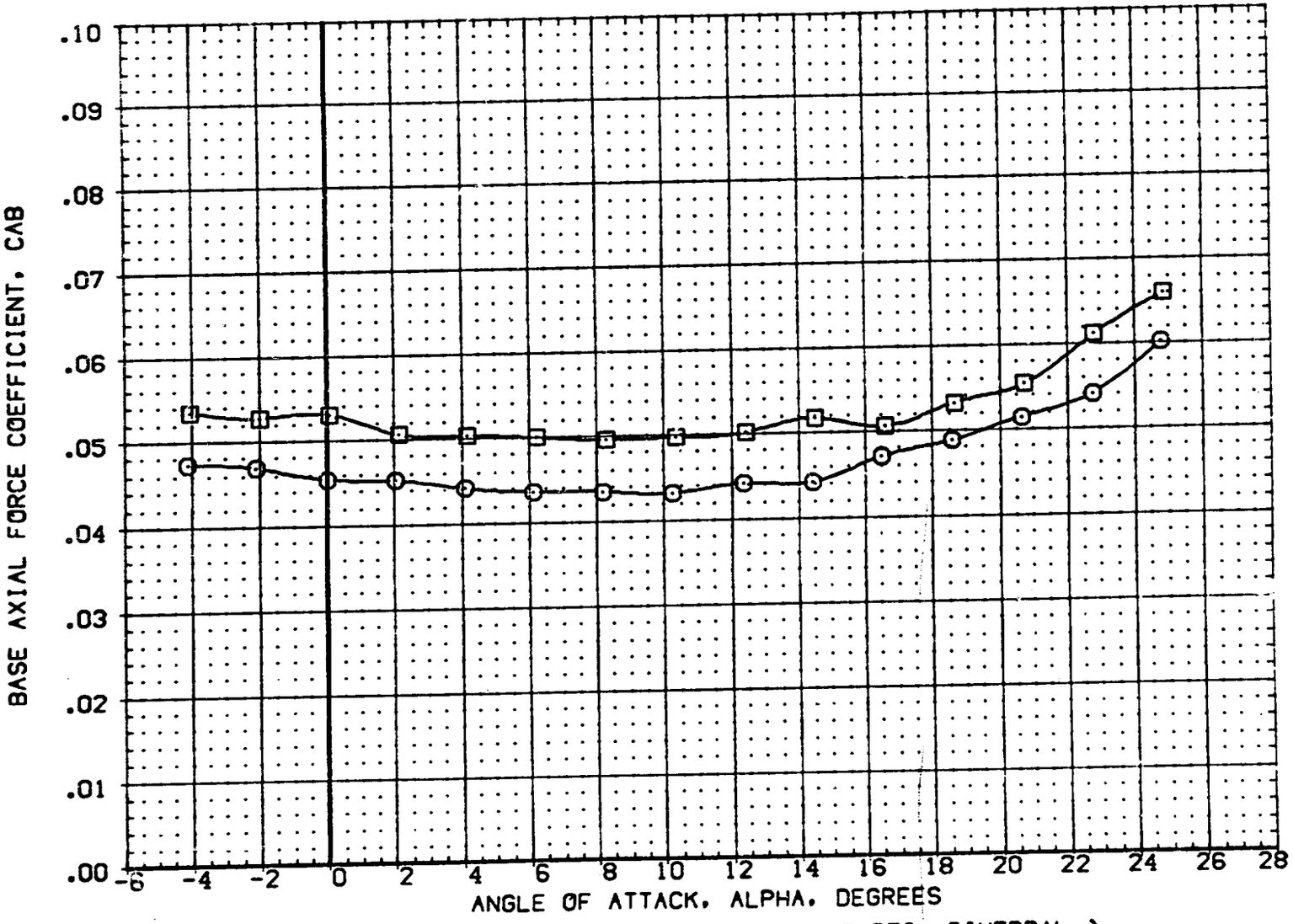


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IOP163) ○	0A21	B17C7H15M4FS	V107E23V7R6	X9	
(IOP170) □	0A21	B17C7H15M4FS	V107E23V7R6	X8	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

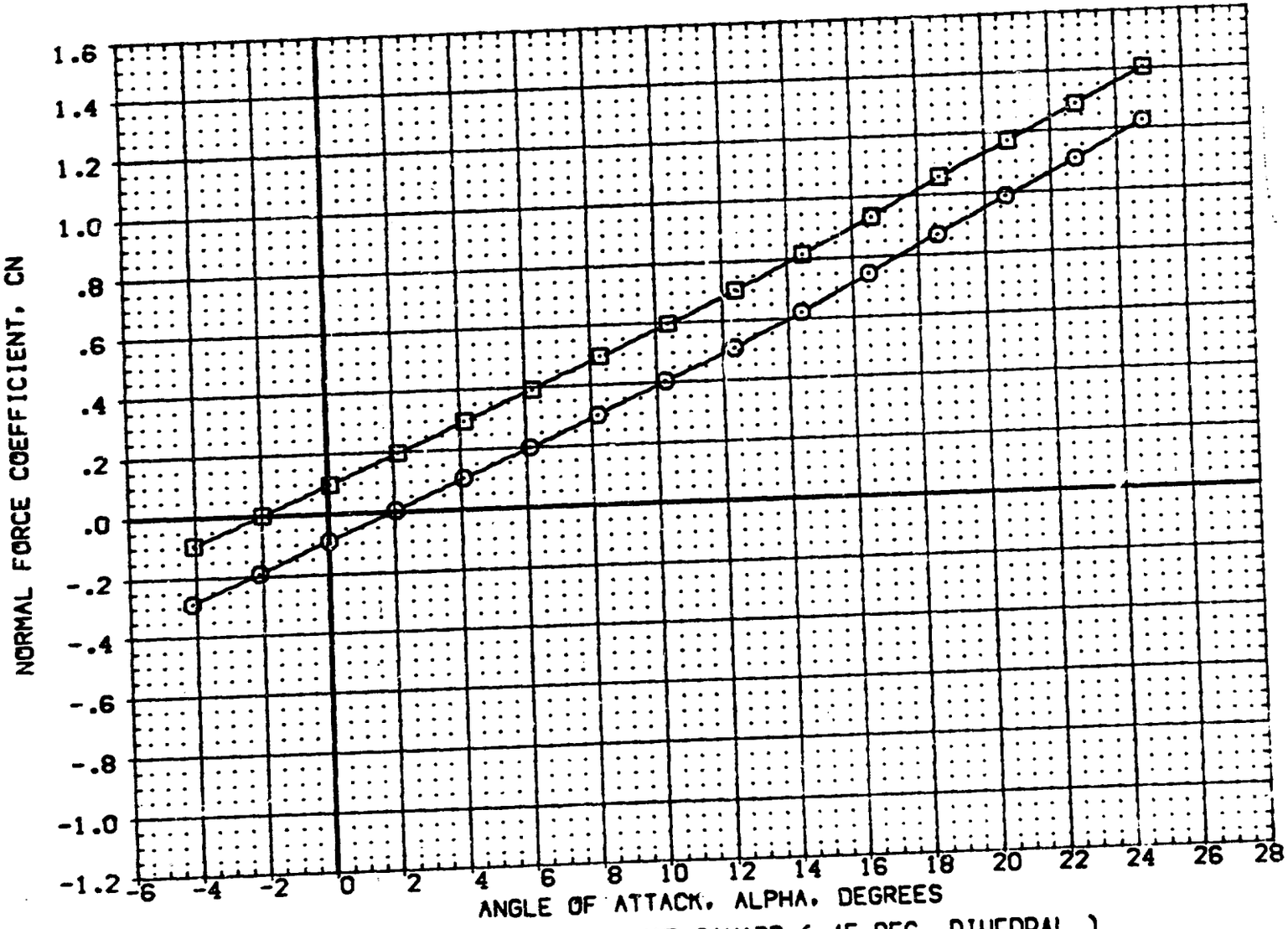


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPOBRK
[IDP163]	○	0A21	B17C7H15M4F5	V107E23V7R6	X9	.000	.000	-18.000	55.000
[IDP170]	□	0A21	B17C7H15M4F5	V107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

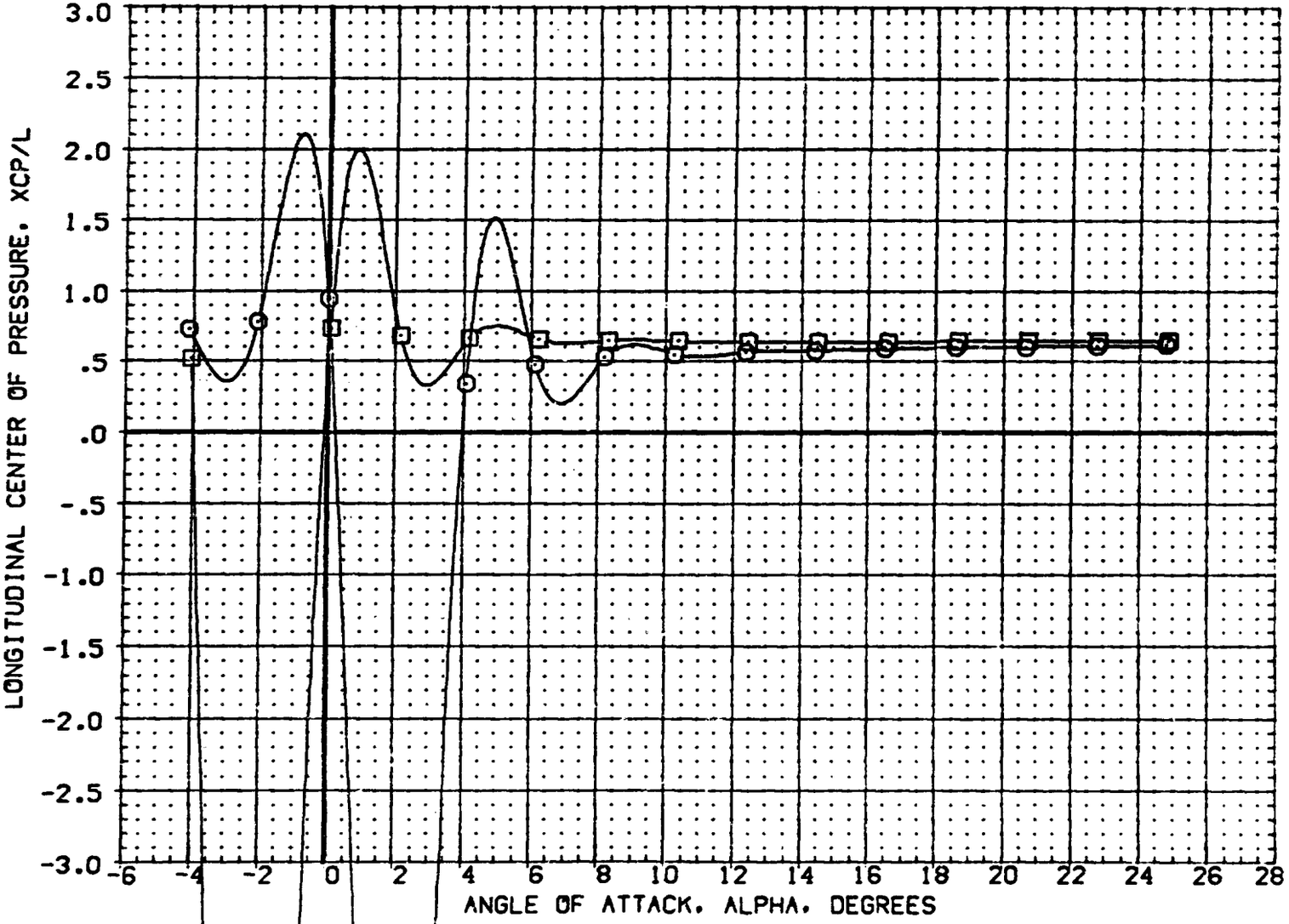


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .18

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP163]		0A21	B17C7H15M4F5	V107E23V7R6	X9
[IDP170]		0A21	B17C7H15M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

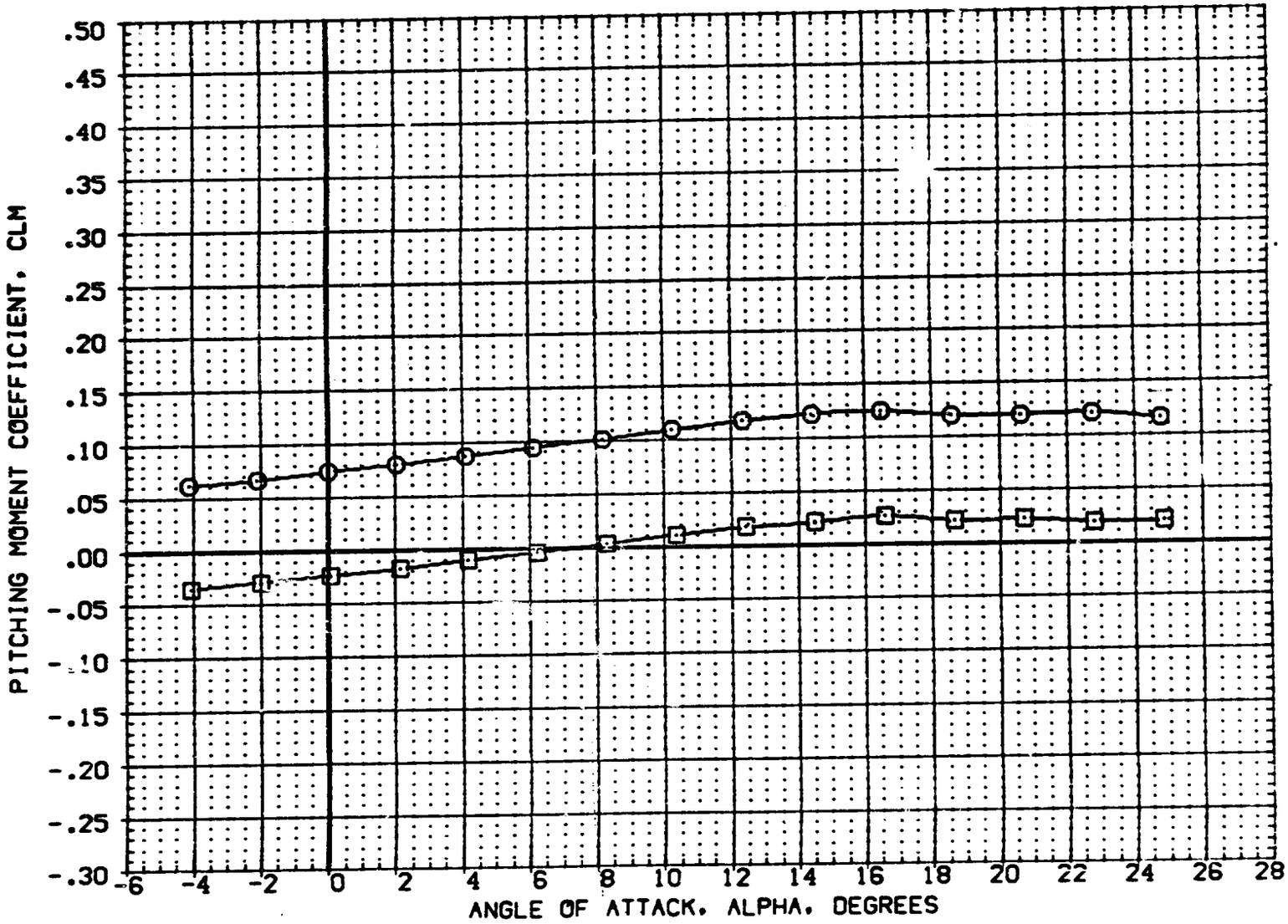


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BCFLAP	SPOJRK
(OOP170) ○	0A21 B17C7H13M4F5 V107E23V7R6 X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

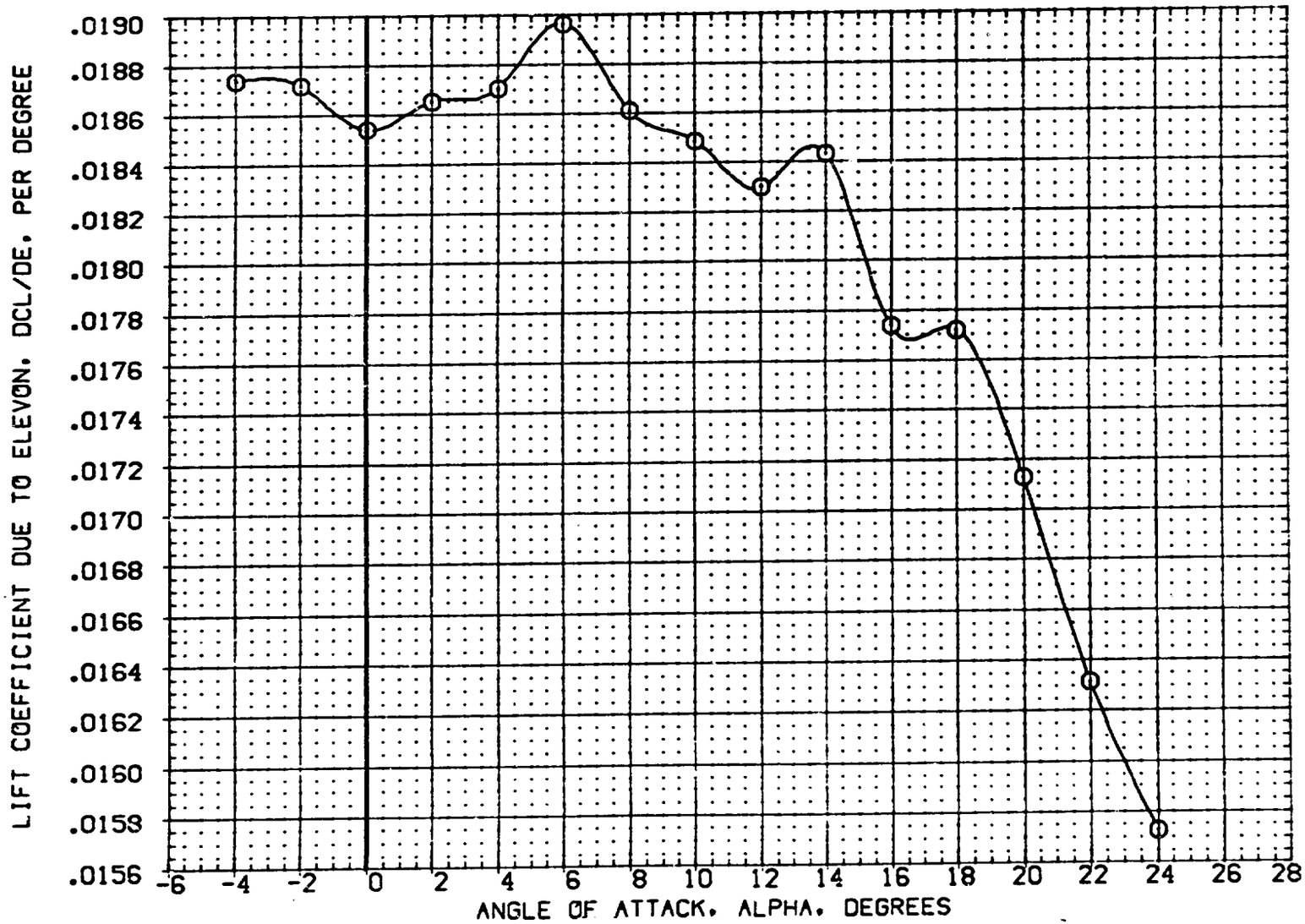


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BDFLAP	SPOBRK
(OOP170) ○	CA21 B17C7H15M4F5 V107E23V7R6 X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

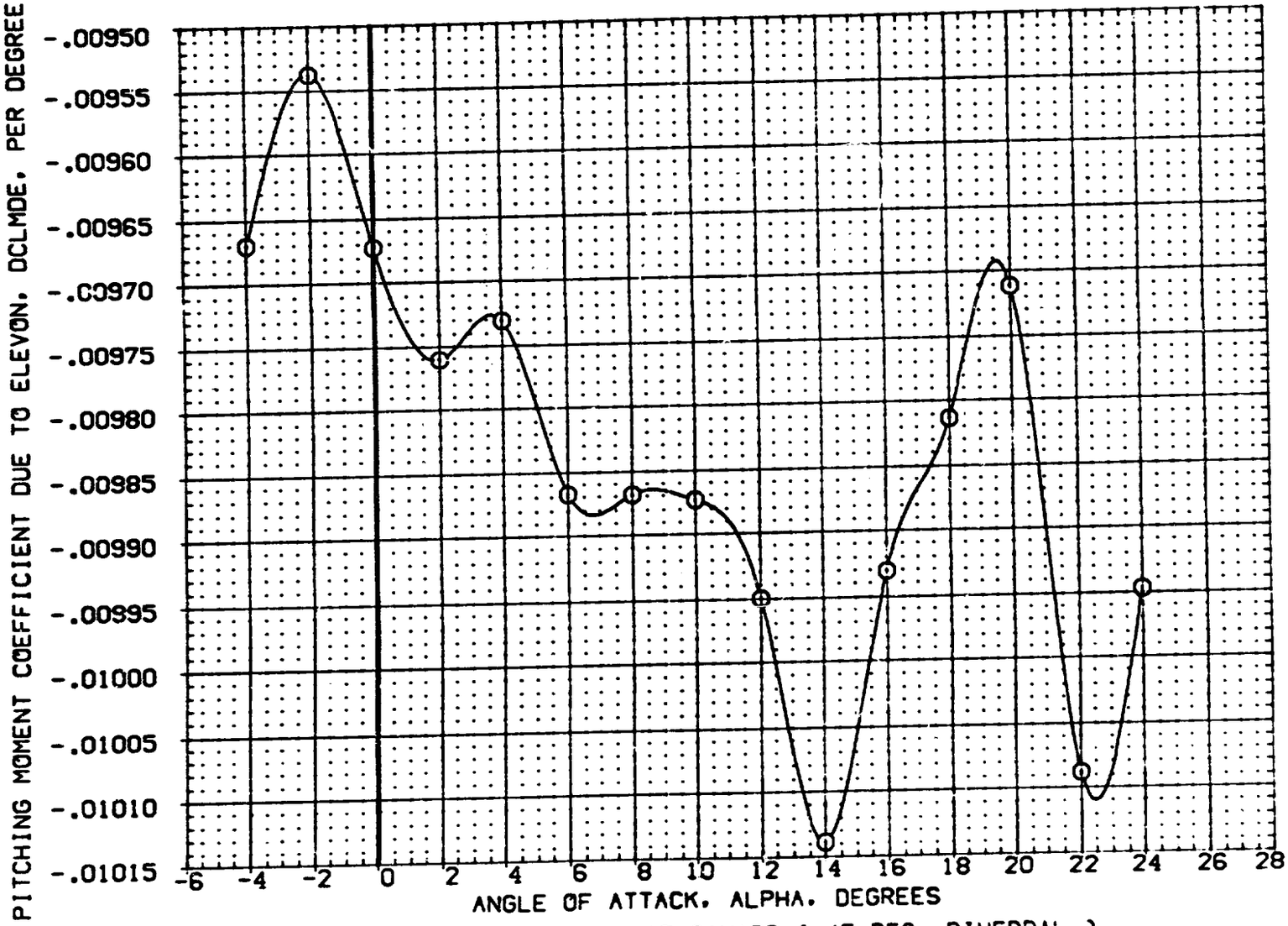


FIGURE 29 ELEVON EFFECTIVENESS WITH H15 CANARD (45 DEG. DIHEDRAL)

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPDBRK
(IDP161)	○	0A21	B17C7H16M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP156)	□	0A21	B17C7H16M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

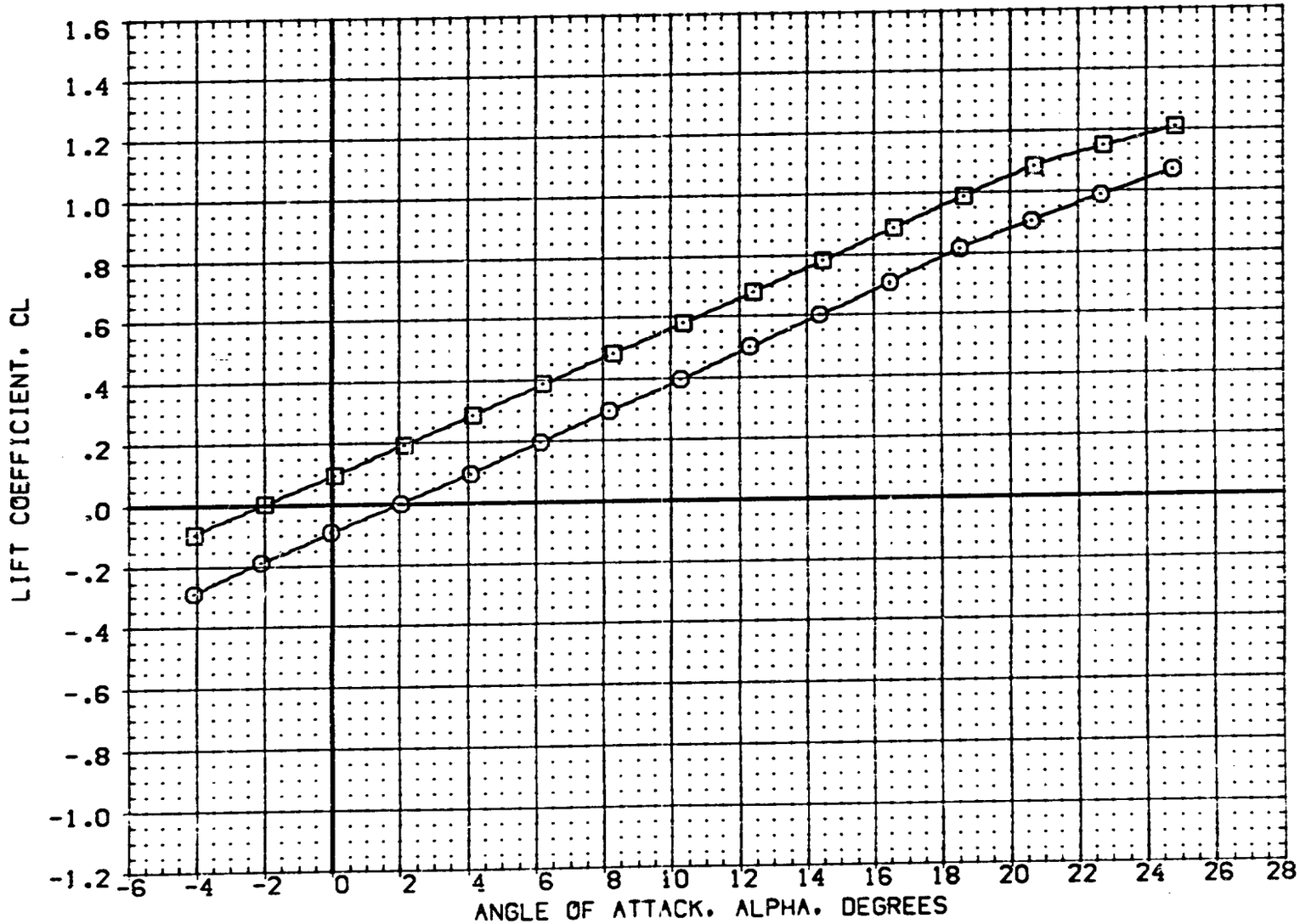


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
(IDP161)	○	0A21	B17C7H16M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP156)	□	0A21	B17C7H16M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

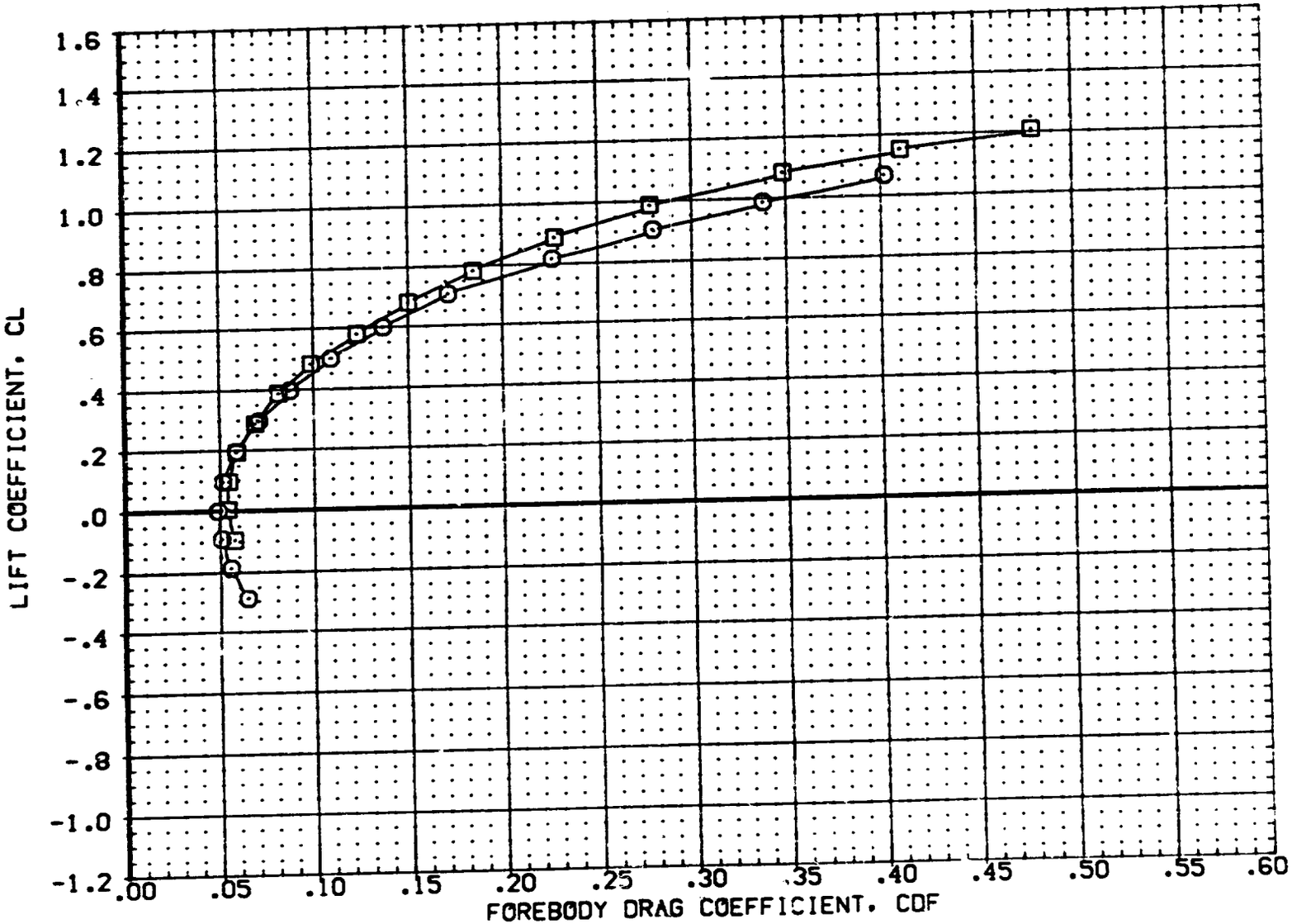


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[IDP161]	○	[illegible]21	B17C7H16M4F5	W107E23V7R6X9
[IDP156]	□	0A[illegible]	B17C7H16M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

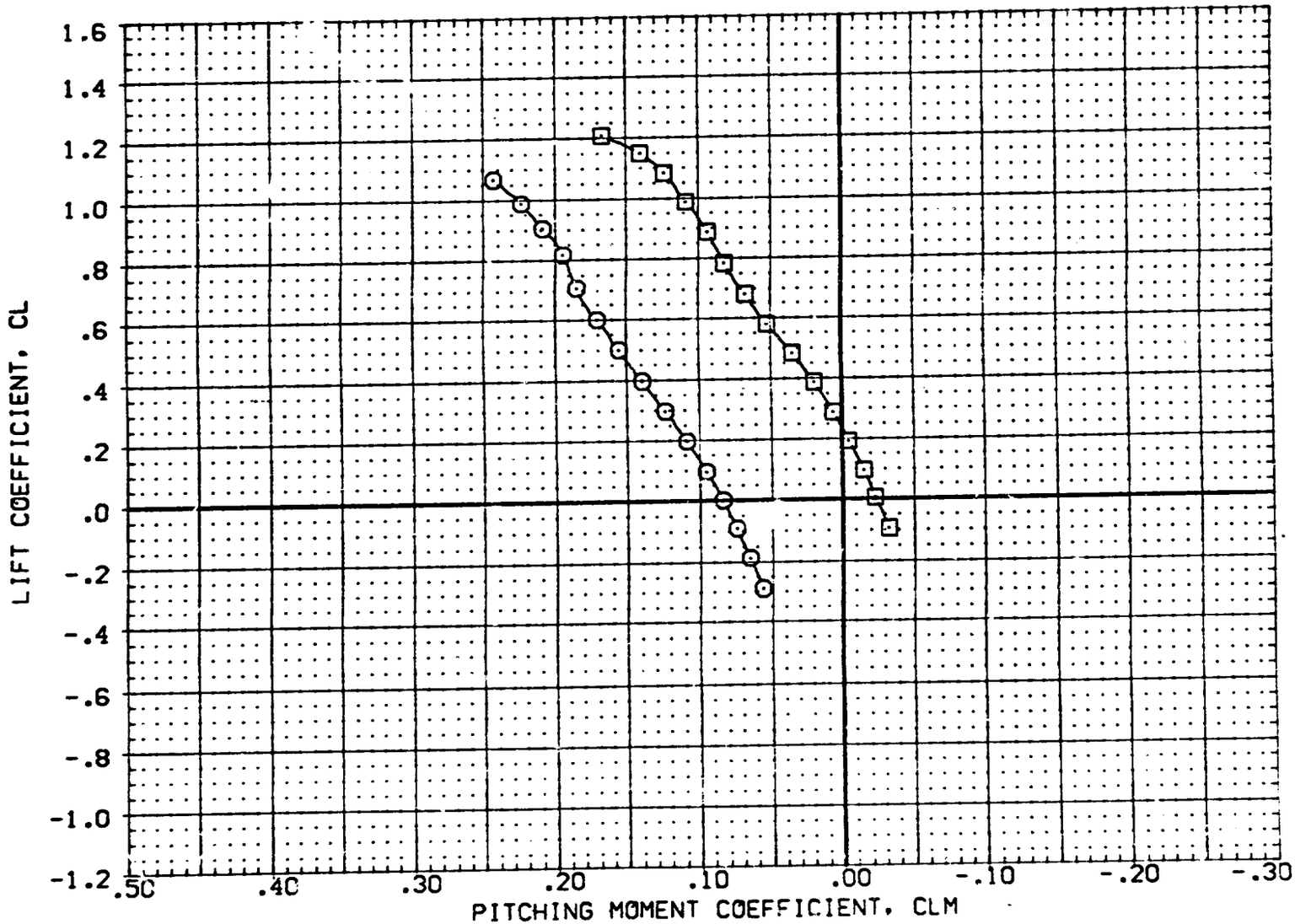


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPOBRK
[IDP161]	0A21	B17C7H16M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
[IDP156]	0A21	B17C7H16M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

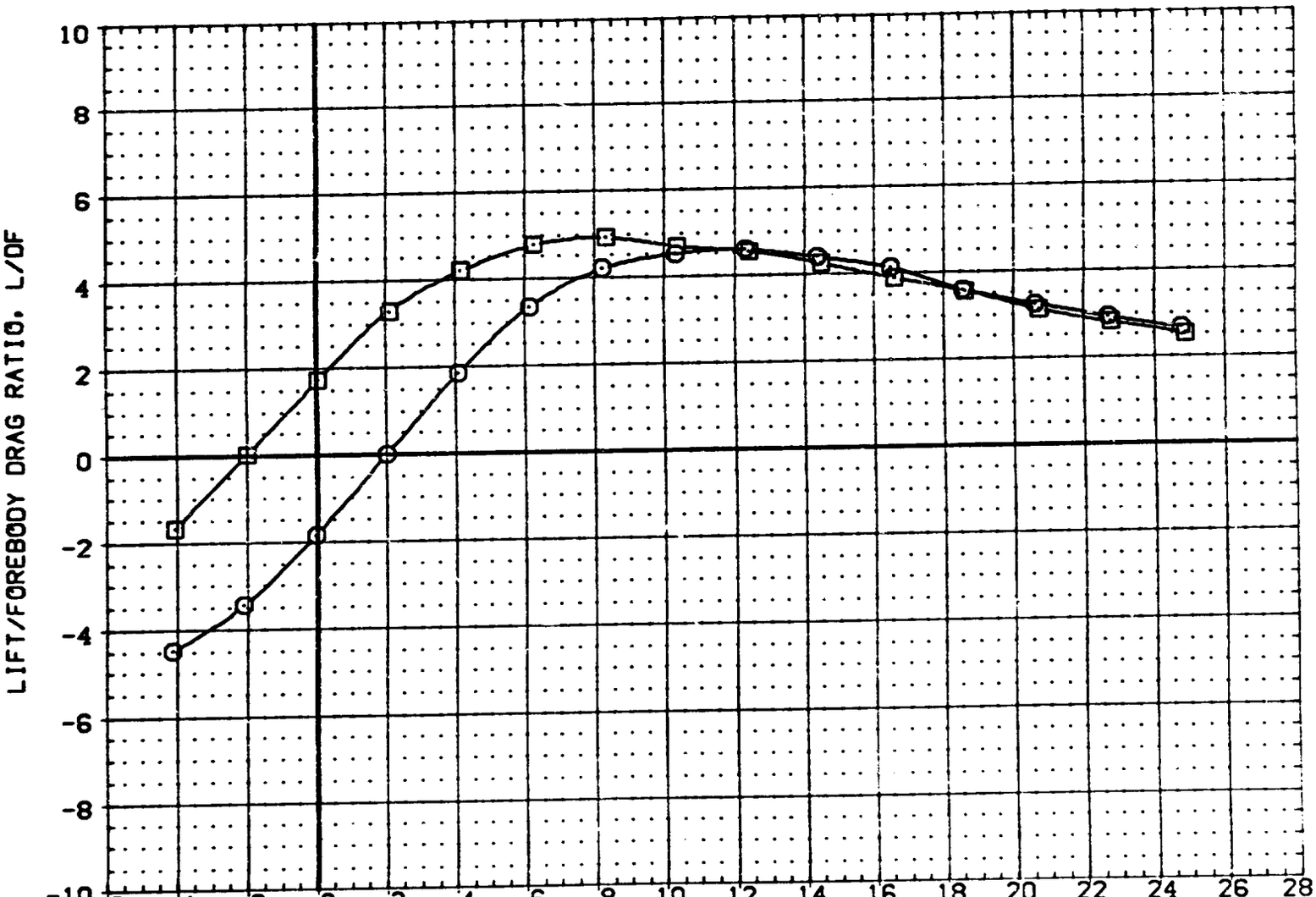


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[illegible]	○	0A21	B17C7H16M4F5	V107E2[illegible]
[illegible]	□	0A21	B17C7H16M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-10.000	55.000
10.000	.000	-10.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2259	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

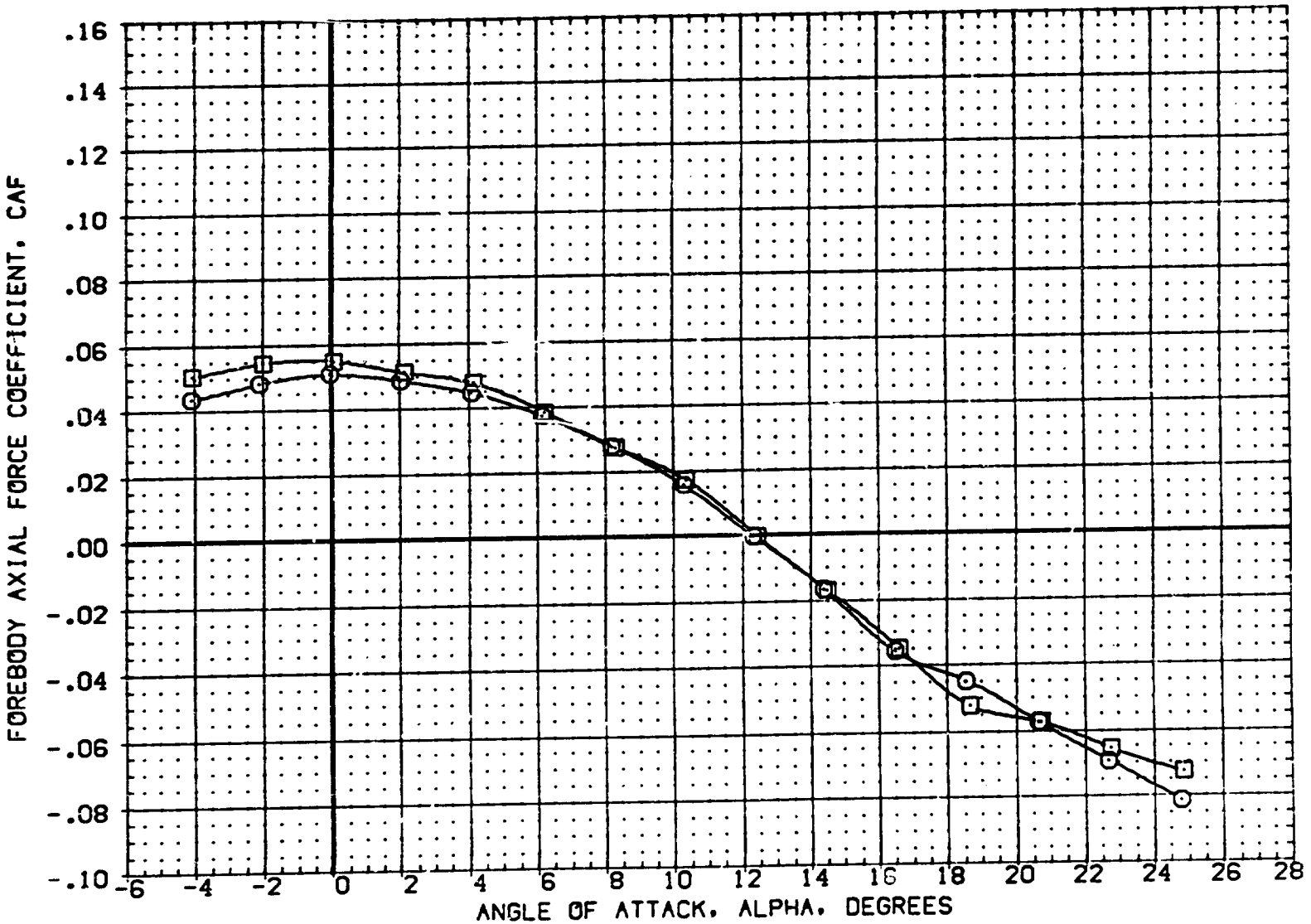


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BDFLAP	SPDBK	REFERENCE INFORMATION		
(IDP161)	○	0A21	B17C7H16M4F5	V107E23V7R6X9		.000	.000	-18.000	55.000	SREF	4.4119	SQ.FT.
(IDP156)	□	0A21	B17C7H16M4F5	V107E23V7R6X9		10.000	.000	-18.000	55.000	LREF	19.2299	INCHES
										BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

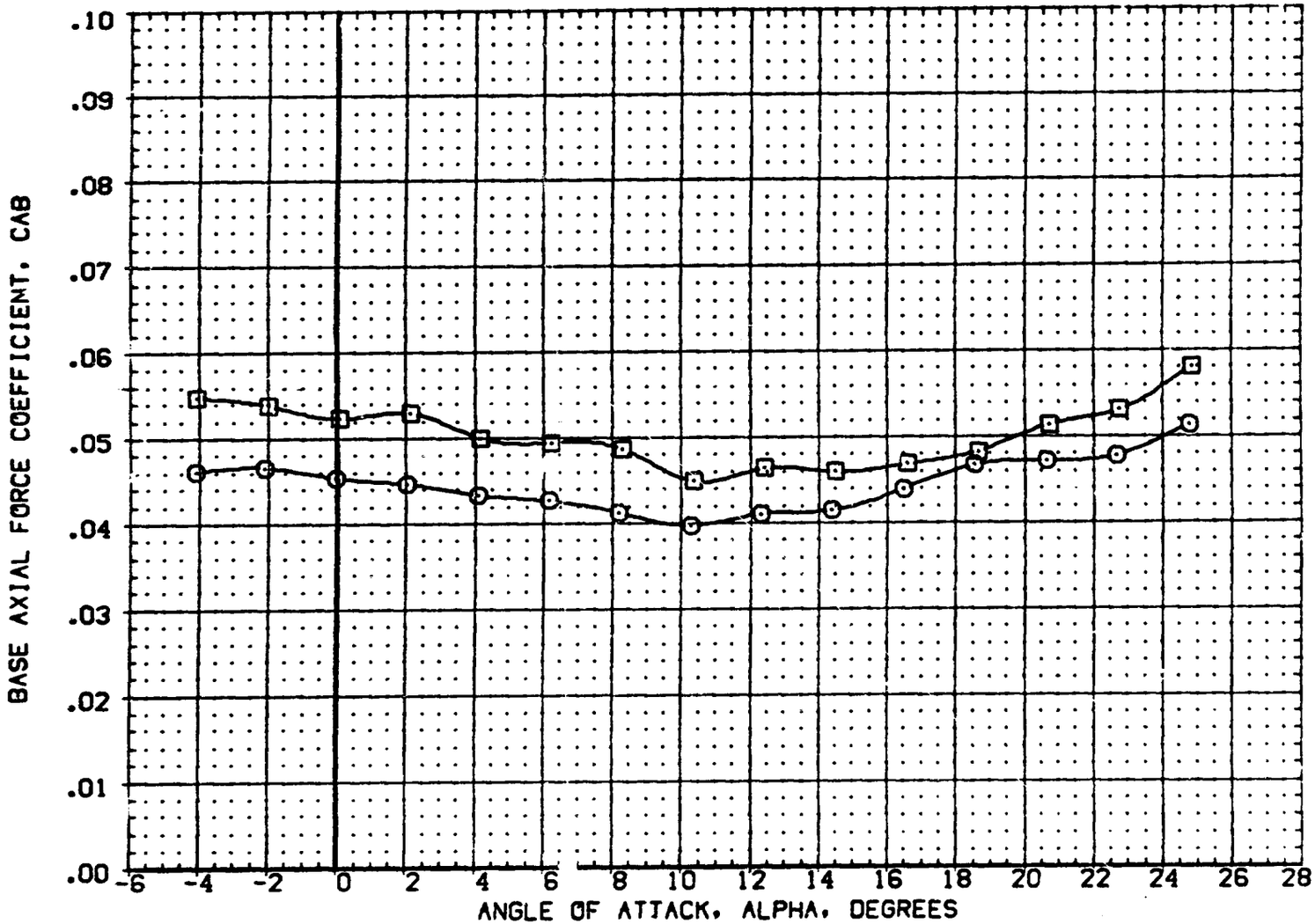


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP161)	○	0A21	B17C7H16M4F5	W107E23V7R6X9
(IDP156)	□	0A21	B17C7H16M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

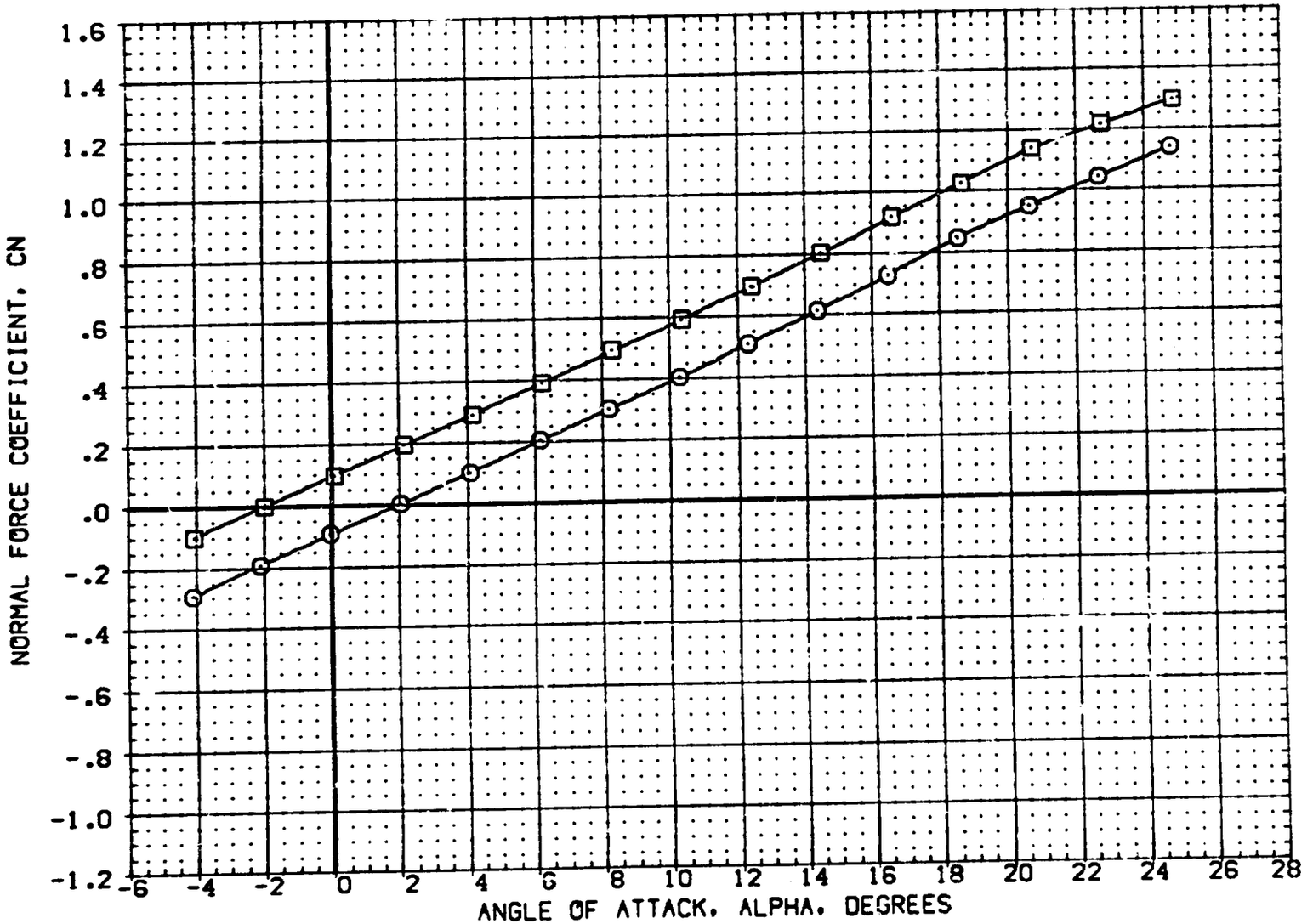


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

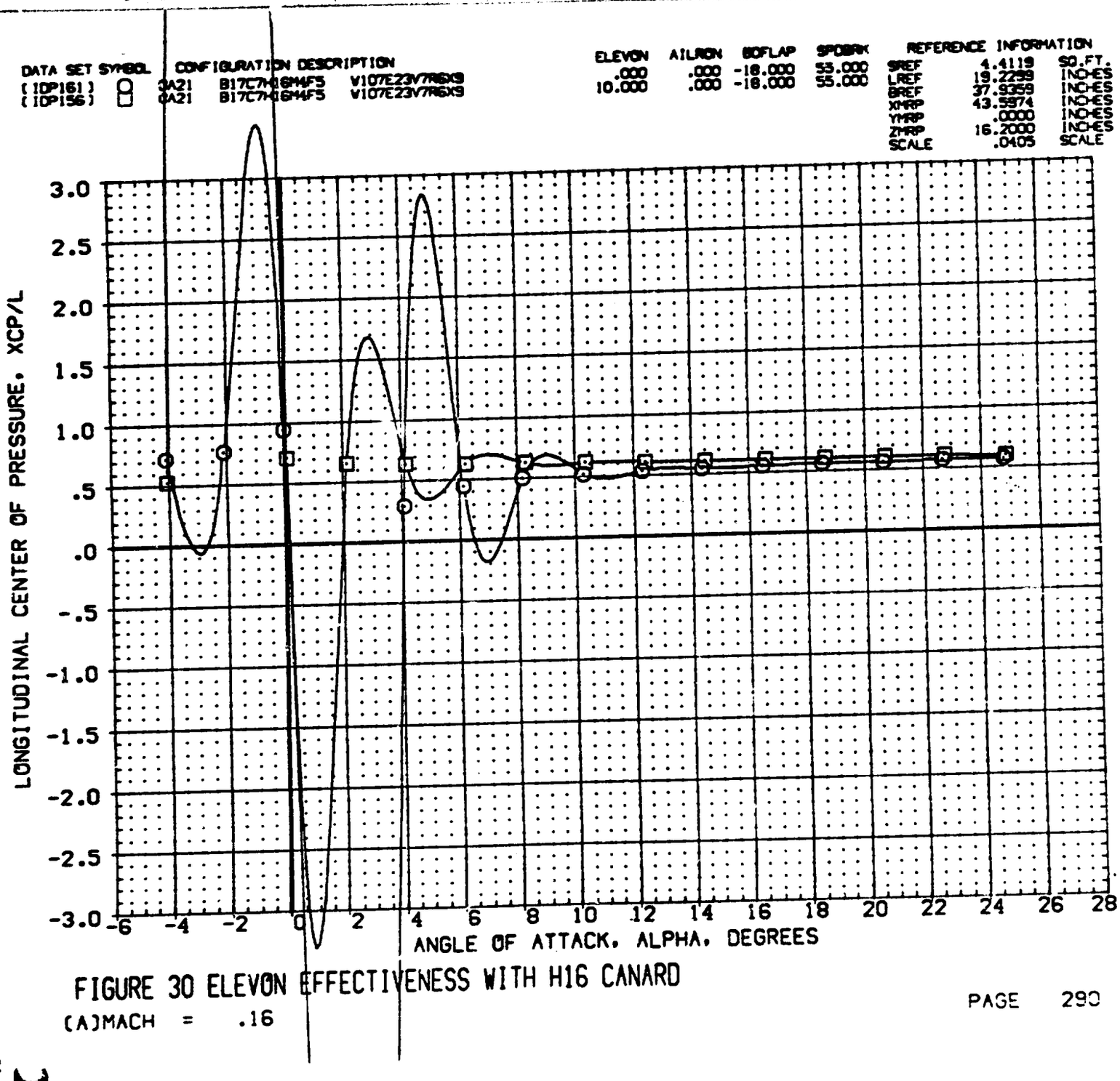


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION		
(IDP161)	○	0A21	B17C7H16M4F5	V10/E23V7R6X9	
(IDP156)	□	0A21	B17C7H16M4F5	V10/E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

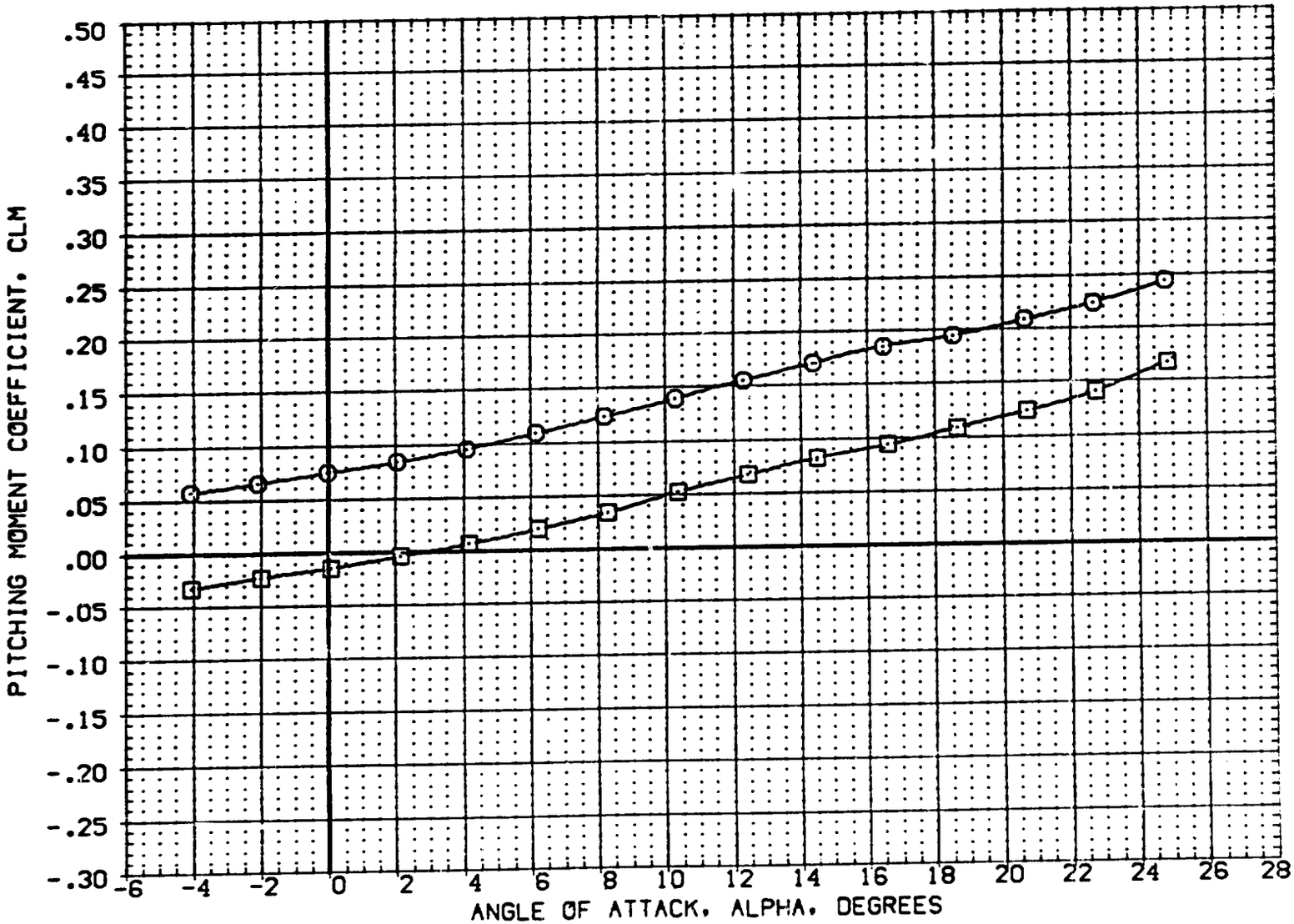


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(DDP156) O 0A21 B17C7H16M4F5 V107E23V7R6X9

MAXELE	DELELE	BDFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

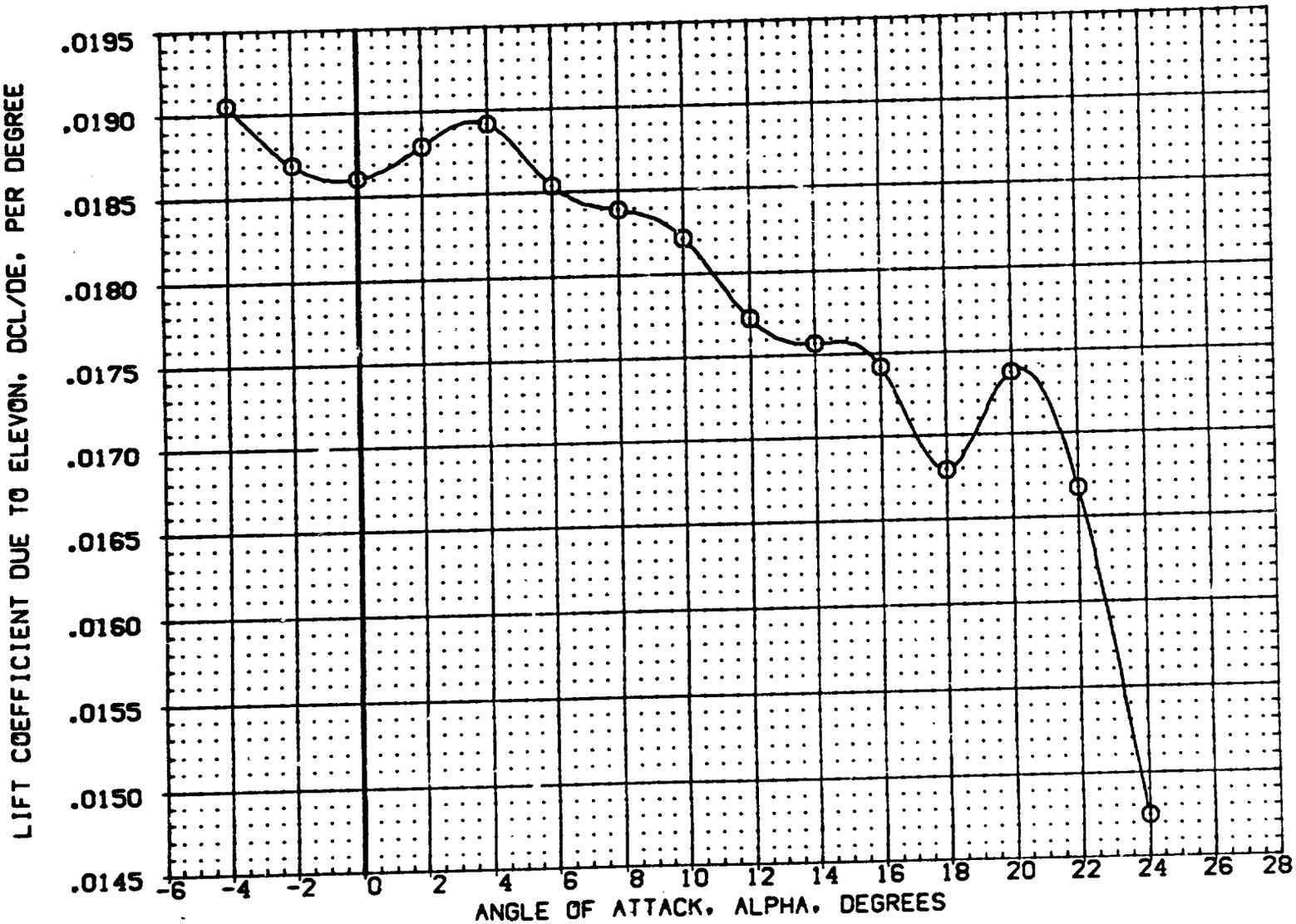


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAXELE	DELELE	BOFLAP	SPDBRK
(COP156) ○	0A21 B17C7H16M4F5 V107E23V7R6X9	10.000	10.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

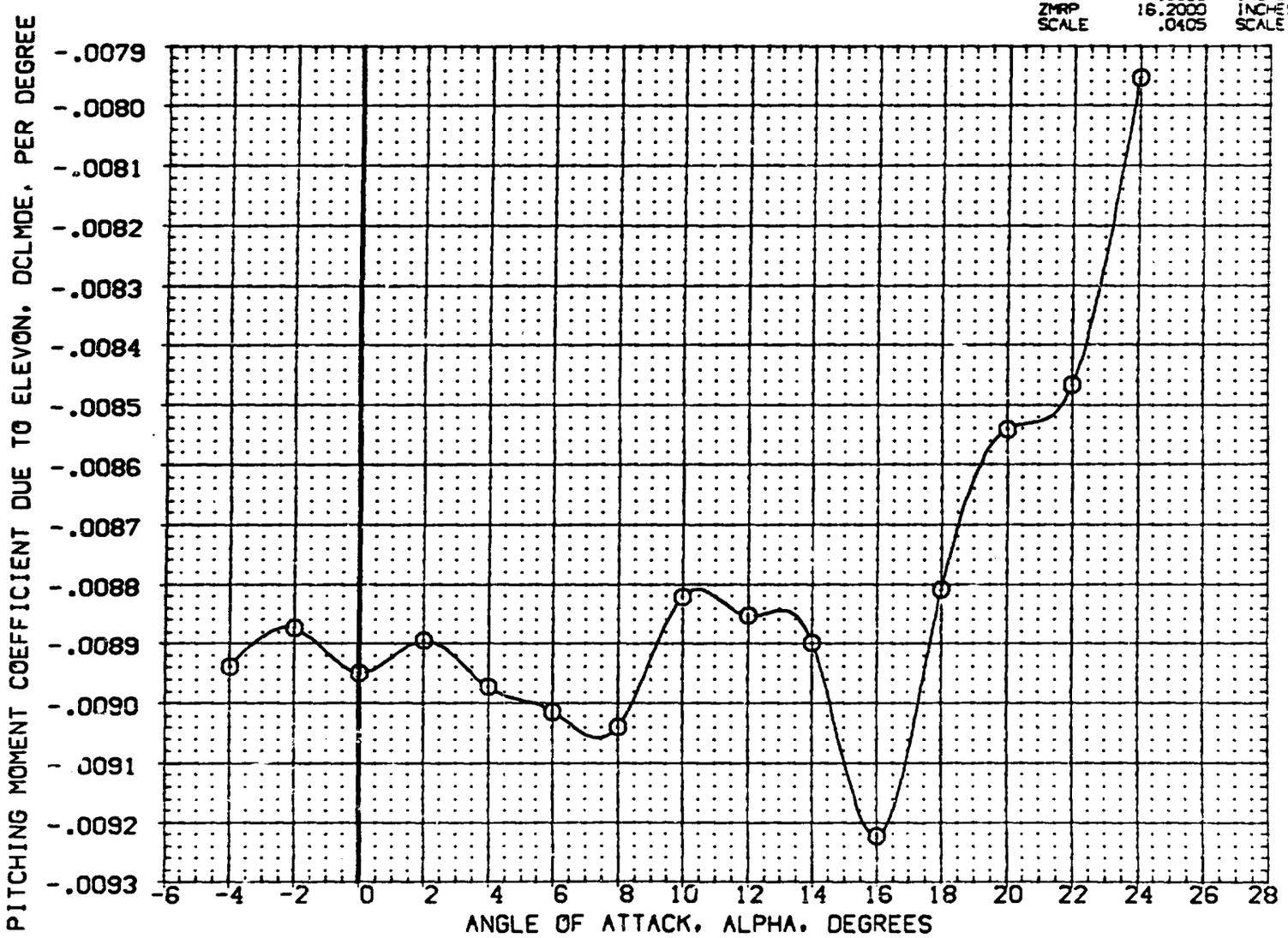


FIGURE 30 ELEVON EFFECTIVENESS WITH H16 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
[IDP148]	8	0A21	B17C7H17M4F5	V107E23V7R6X9
[IDP150]	8	0A21	B17C7H17M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

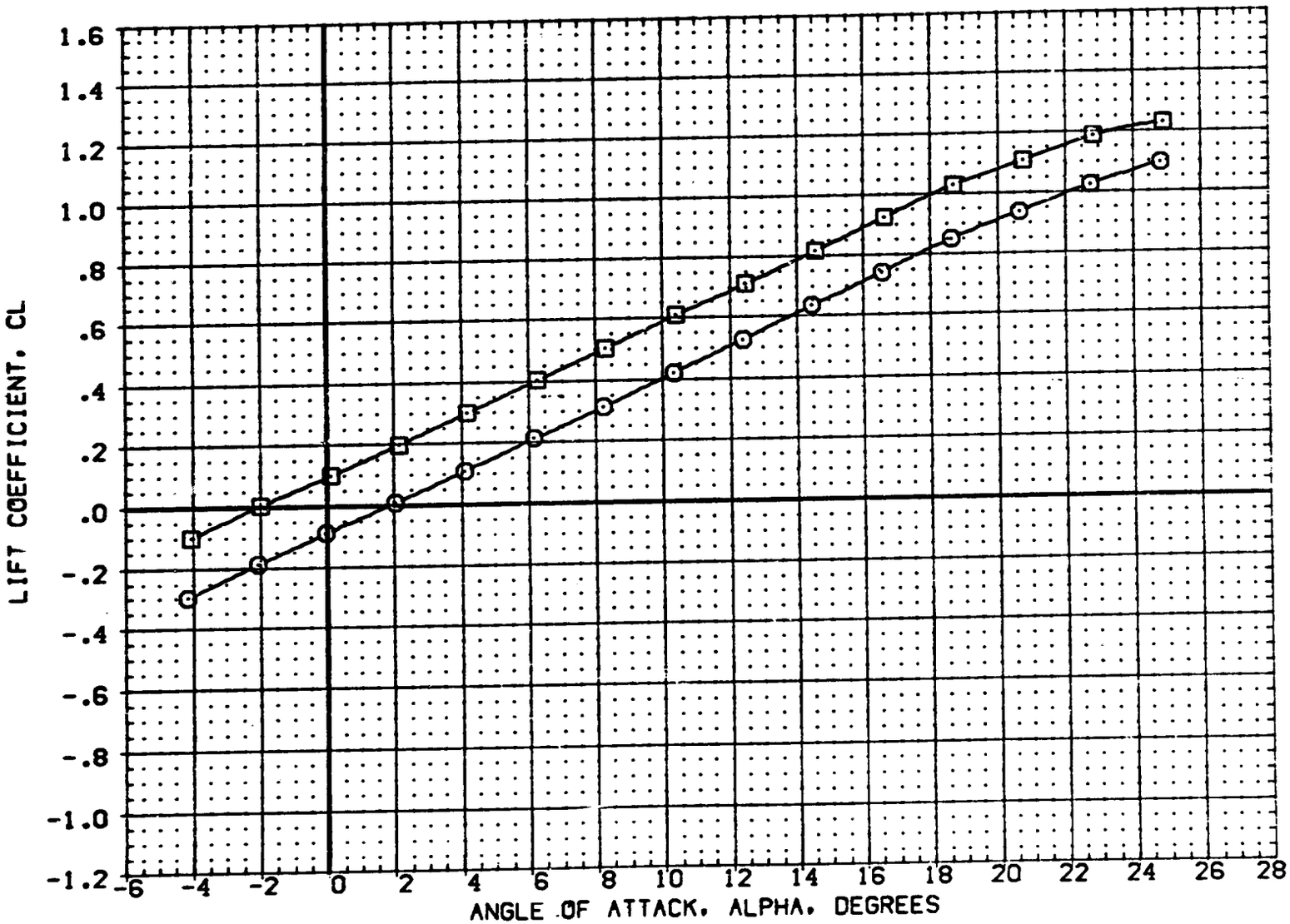


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP148)	○	CA21	B17C7H17M4F5	W107E23V7R6X9
(IDP150)	□	CA21	B17C7H17M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

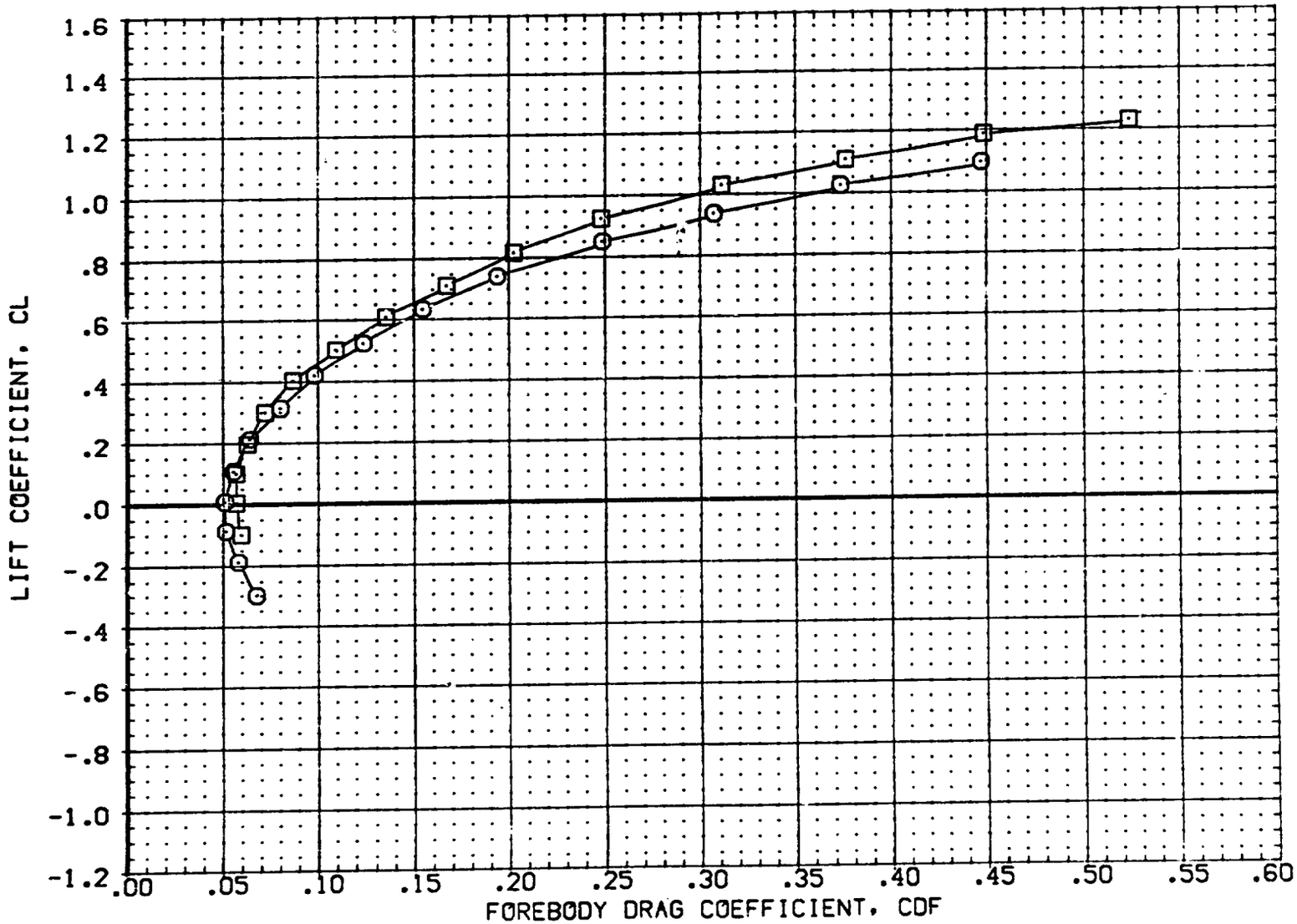


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
[IDP148]	○	0A21	B17C7H17M4F5	V107E23V7R6X9	.000	.300	-18.000	55.000
[IDP150]	□	0A21	B17C7H17M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.59[illegible]	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

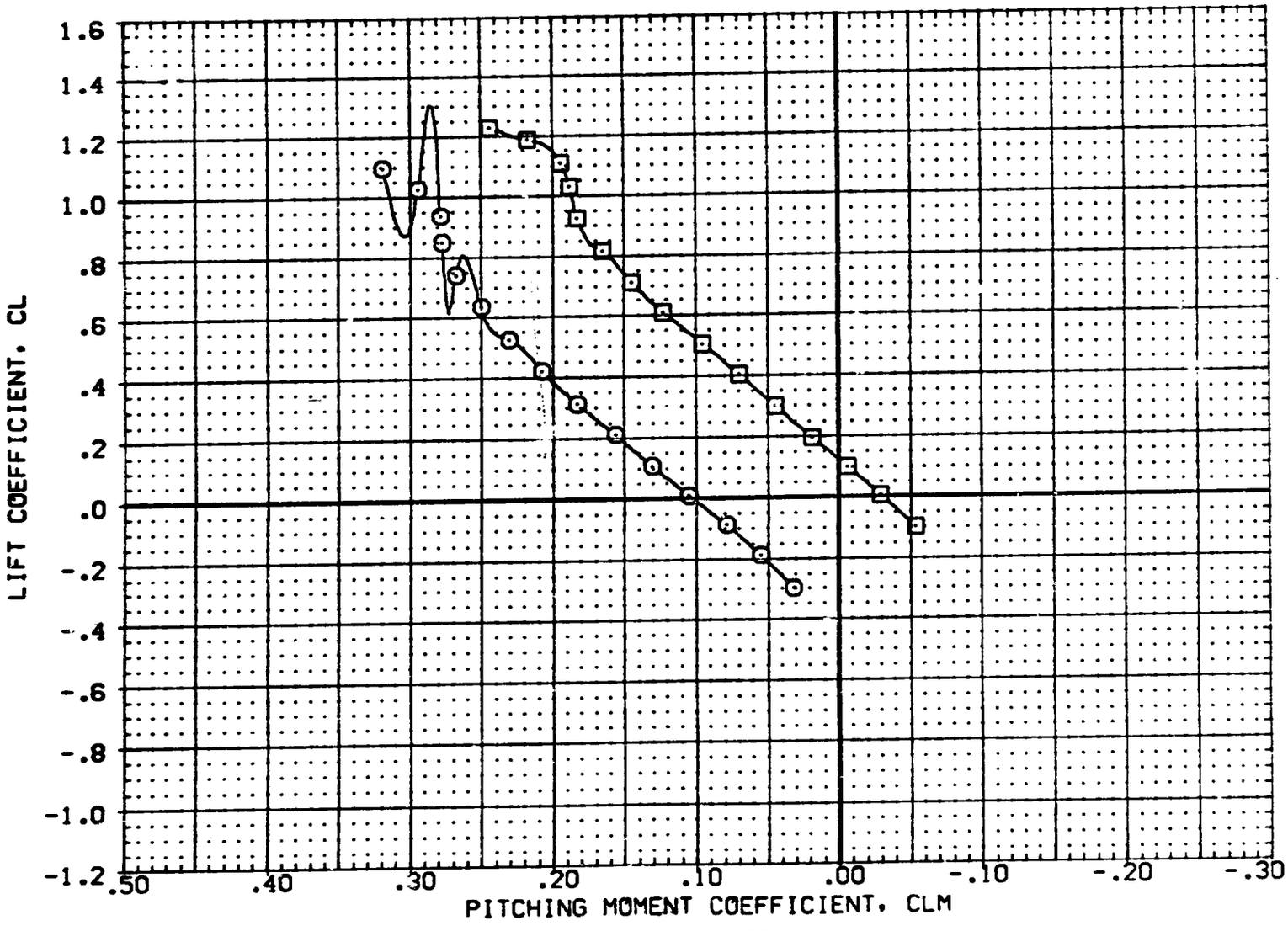


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BDFLAP	SPDBRK
[IDP148]	○	0A21	B17C7H17M4FS	W107E23V7R6X9	.000	.000	-18.000	55.000
[IDP150]	□	0A21	B17C7H17M4FS	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

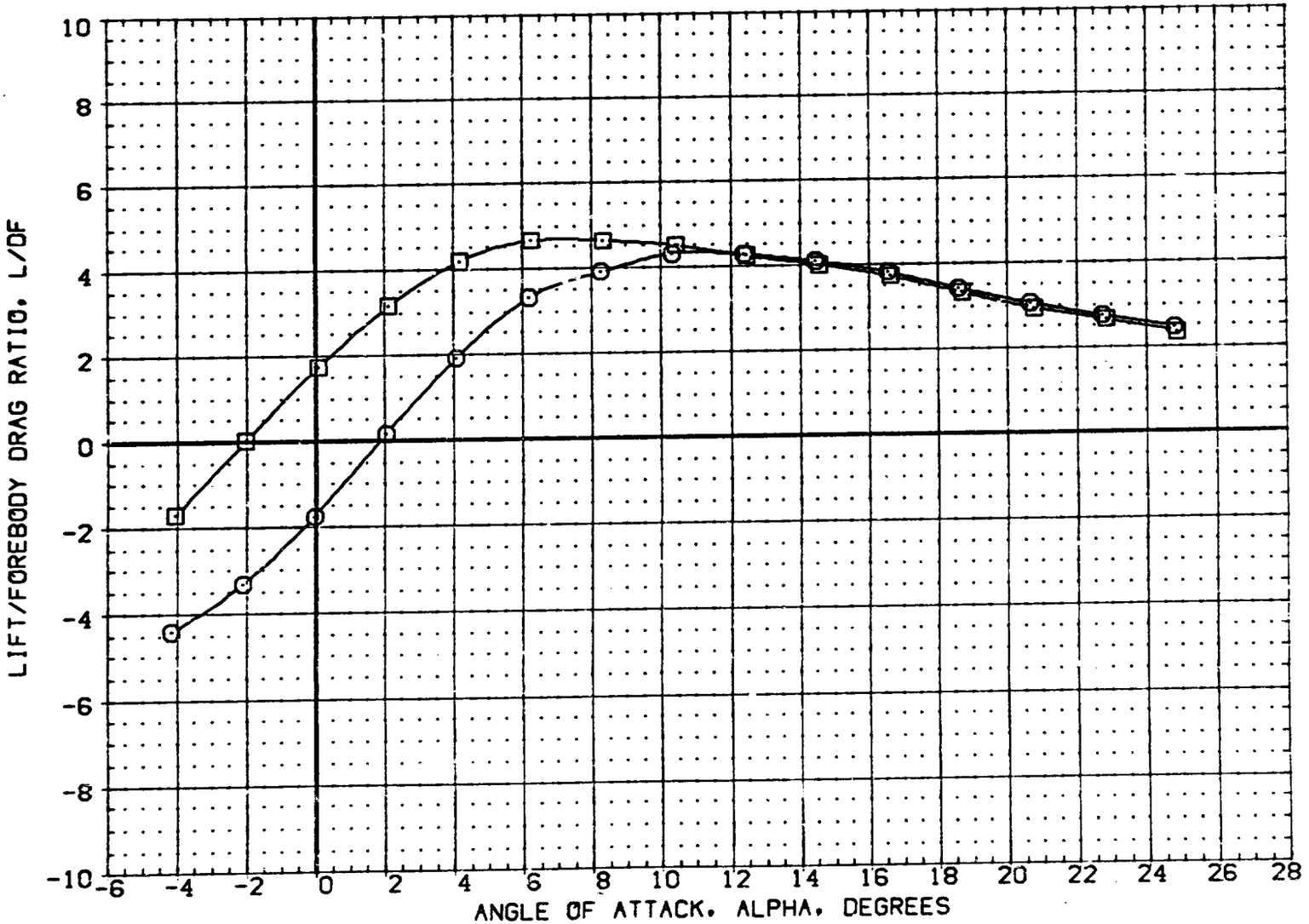


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP148)	○	0A21	B17C7H17M4F5	W107E23V7R6X9	
(IDP150)	□	0A21	B17C7H17M4F5	W107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

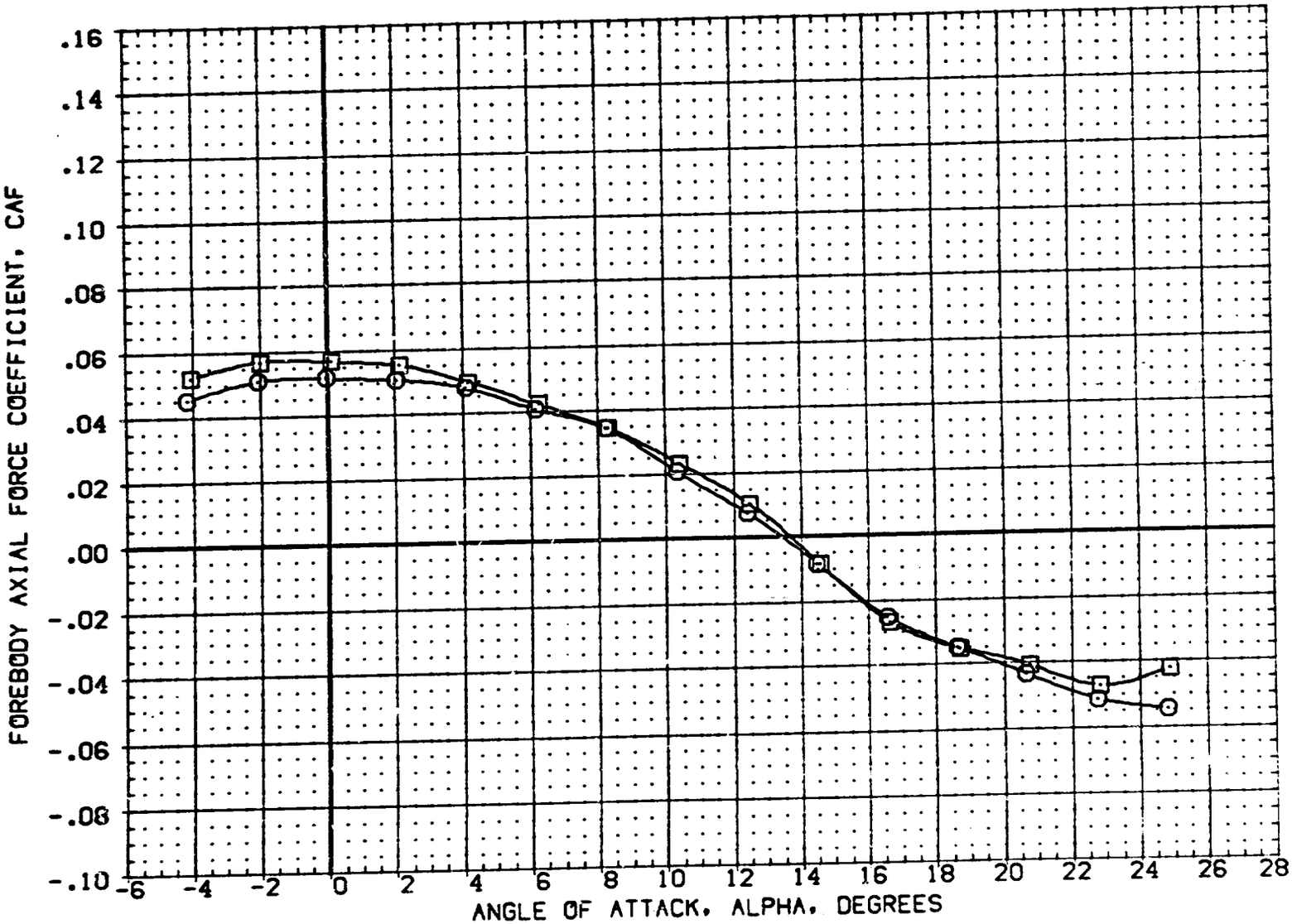


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[IDP148]	○	0A21	B17C7H17M4FS	W107E23V7R6X9
[IDP150]	□	0A21	B17C7H17M4FS	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

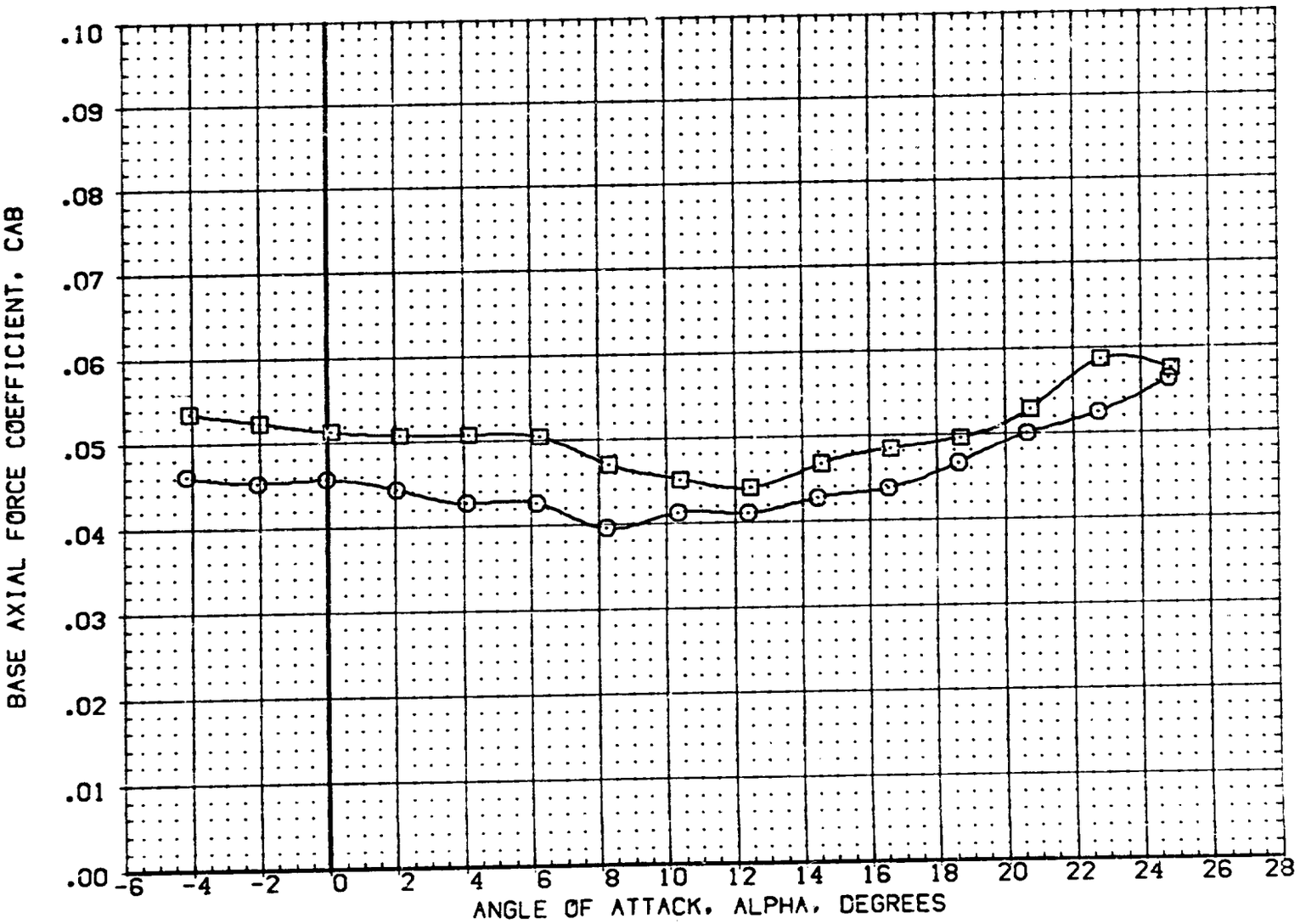


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP148)	○	0A21	B17C7H17M4F5	V107E23V7R6X9
(IDP150)	□	0A21	B17C7H17M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

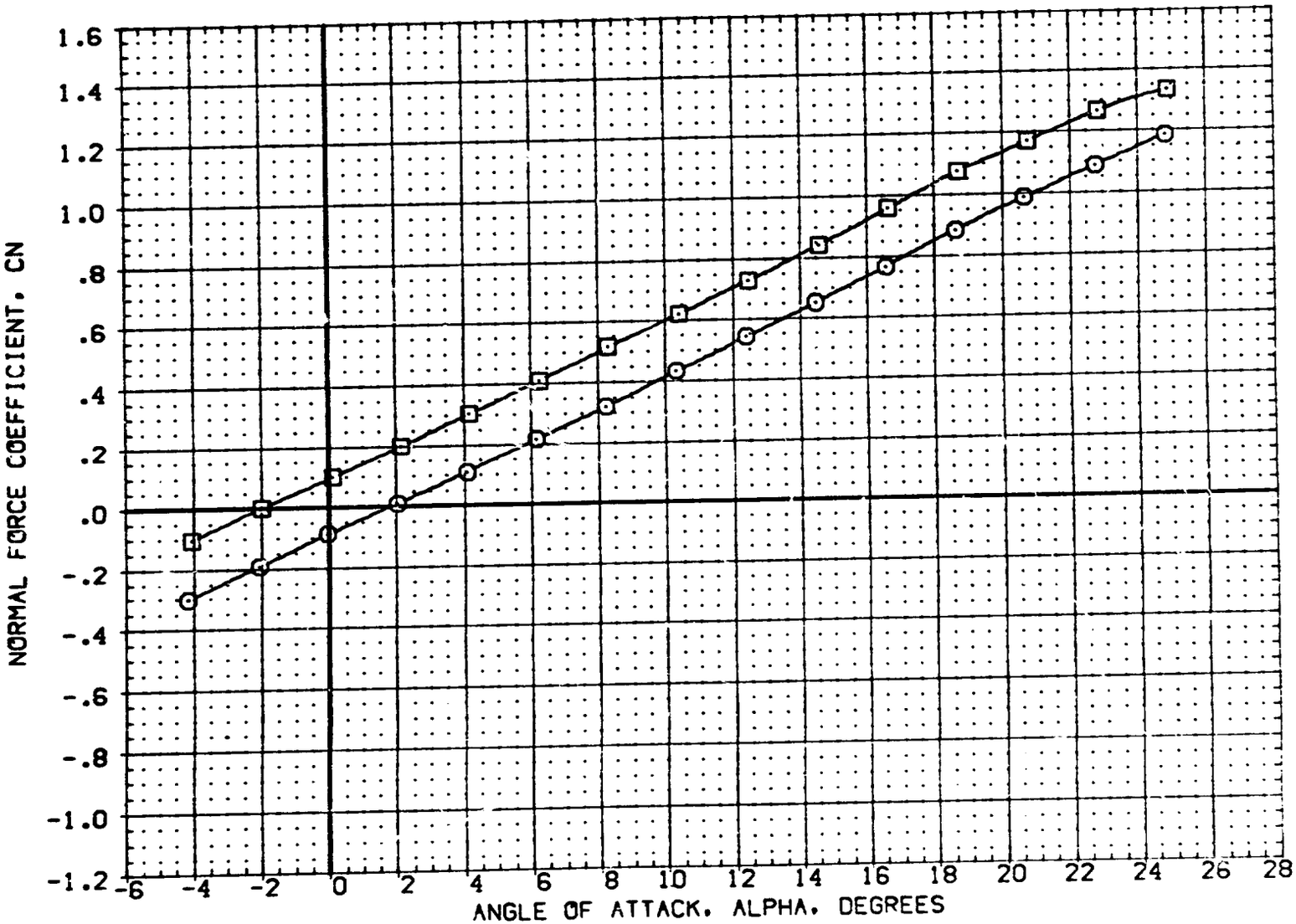


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
[ ]DP148]	0A21	B17C7H17M4F5	V107E23V7R6X9	
[ ]DP150]	0A21	B17C7H17M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

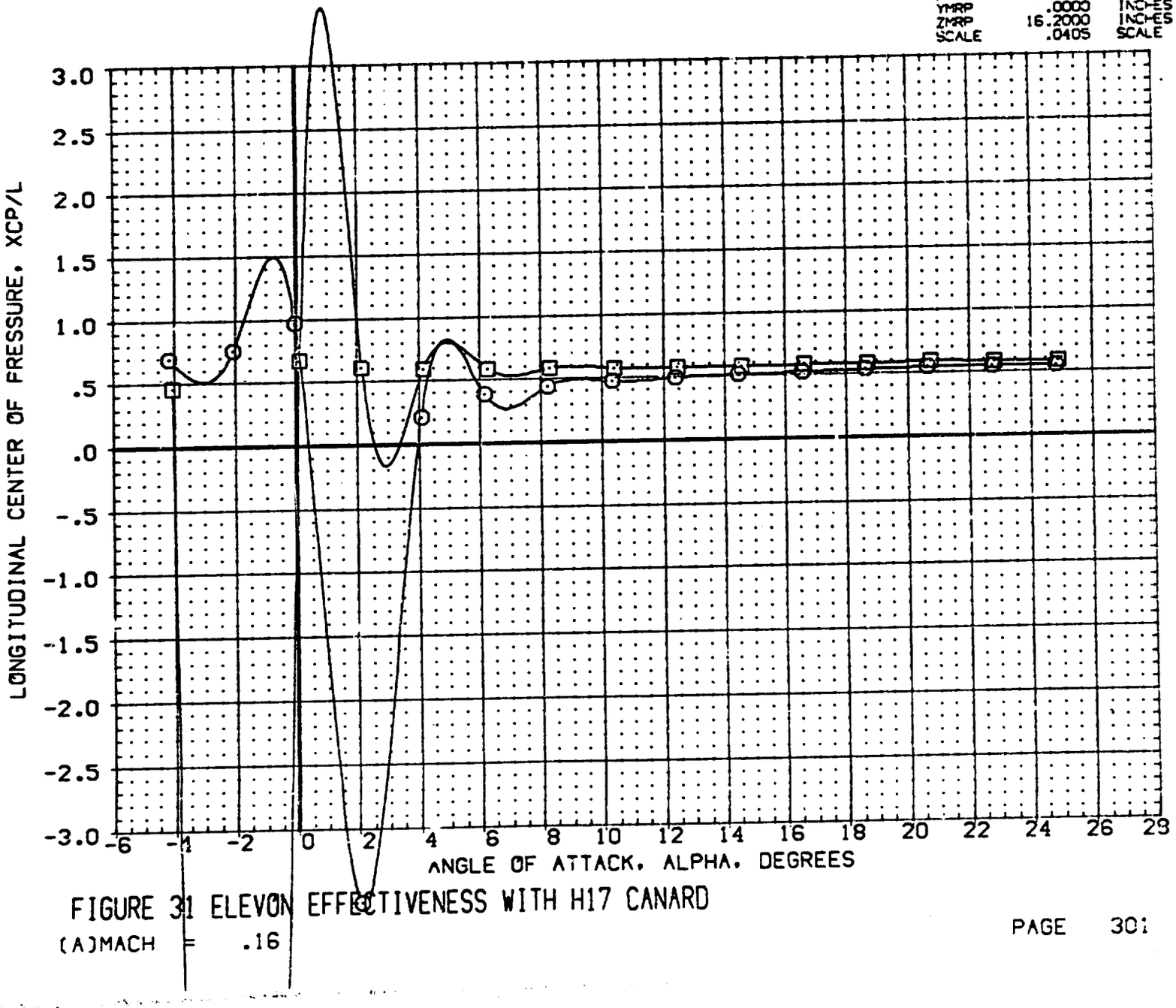


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP148)	○	0A21	B17C7H17M4F5	V107E23V7R6X9
(IDP150)	□	0A21	B17C7H17M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

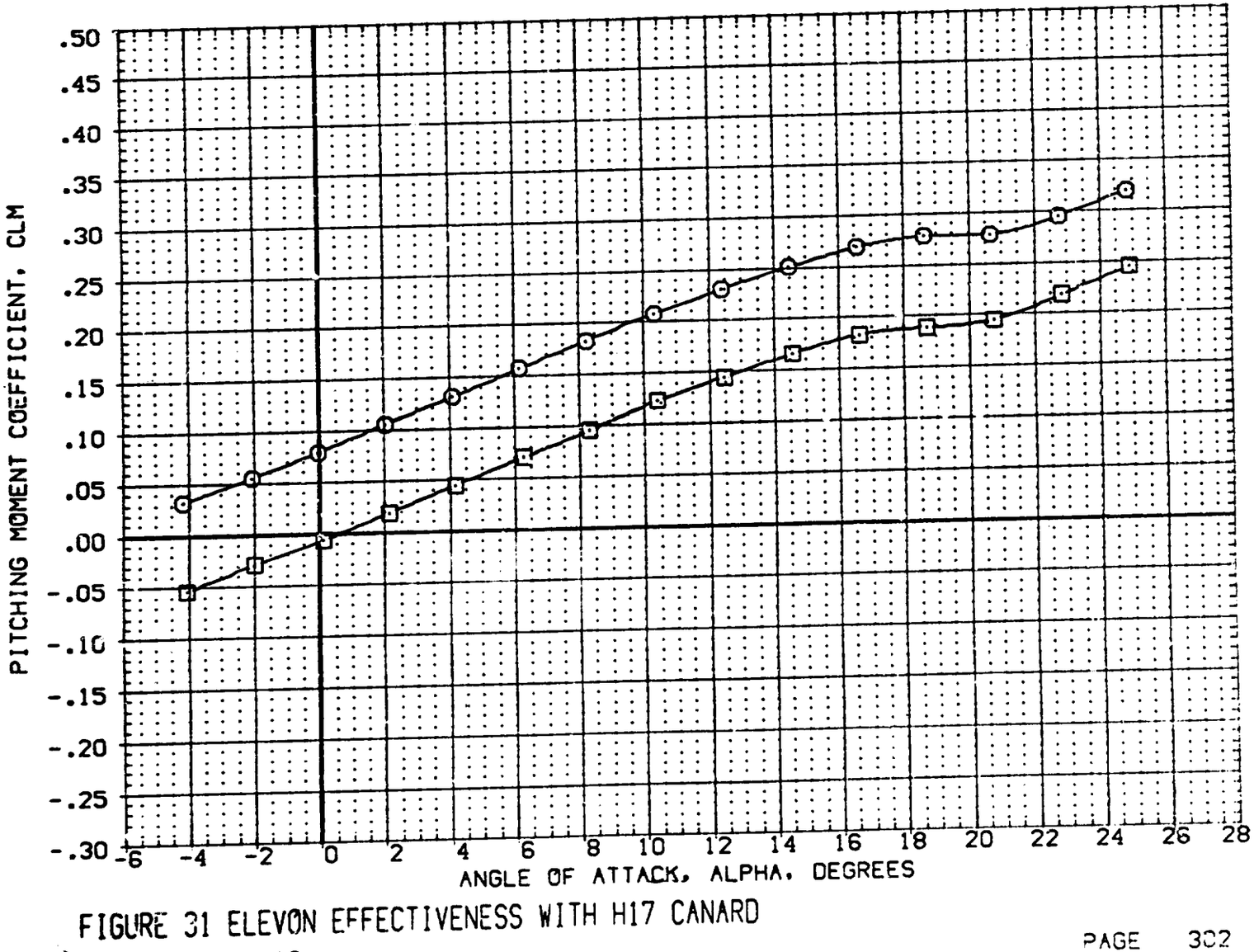


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP150) ○ 0A21 B17C7H17M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

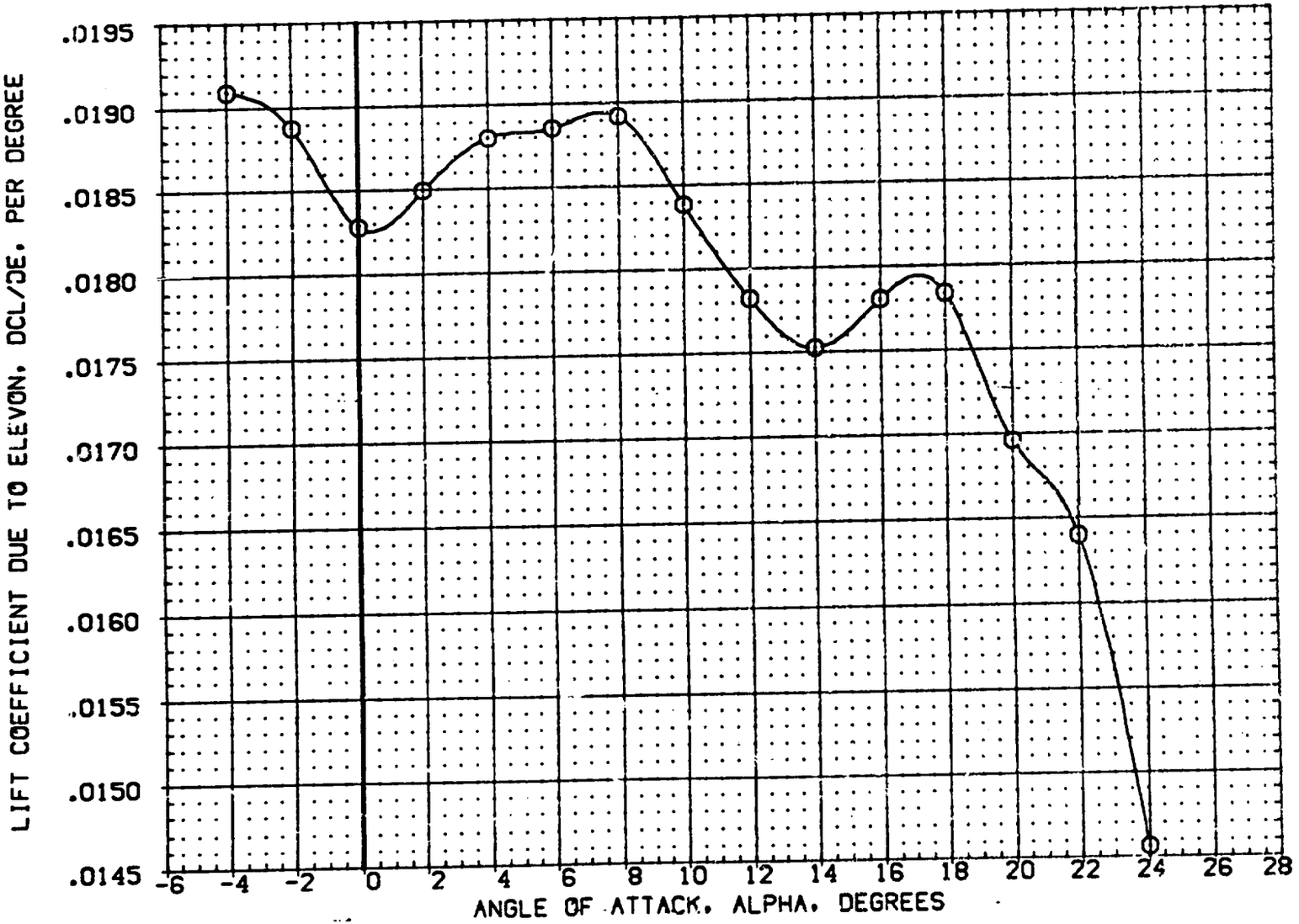


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

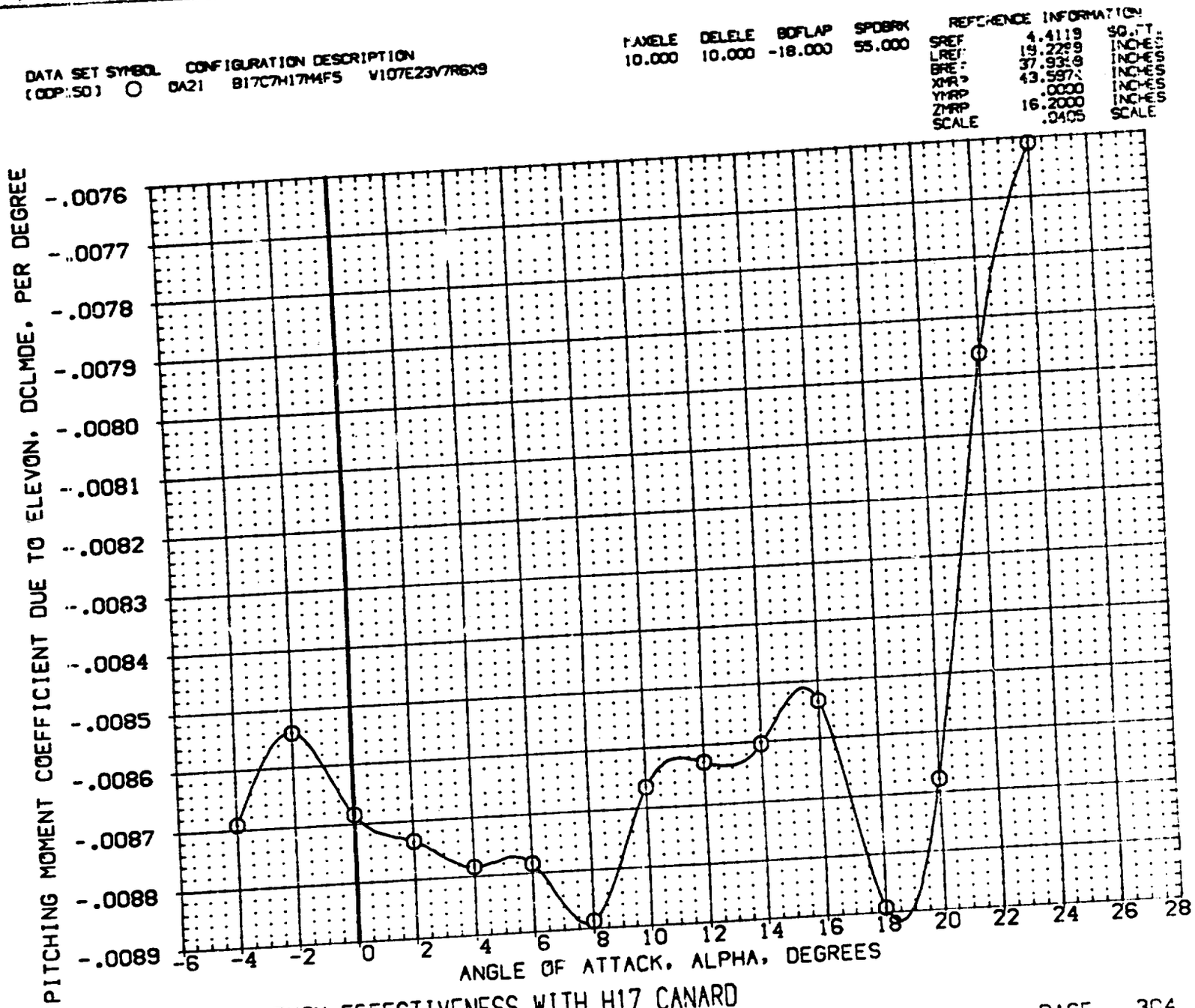


FIGURE 31 ELEVON EFFECTIVENESS WITH H17 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		
(IDP147)	○	0A21	B17C7H18M4F5	V107E23V7R6X9
(IDP151)	□	0A21	B17C7H18M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.1119	SQ.FT.
LREF	19.2499	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

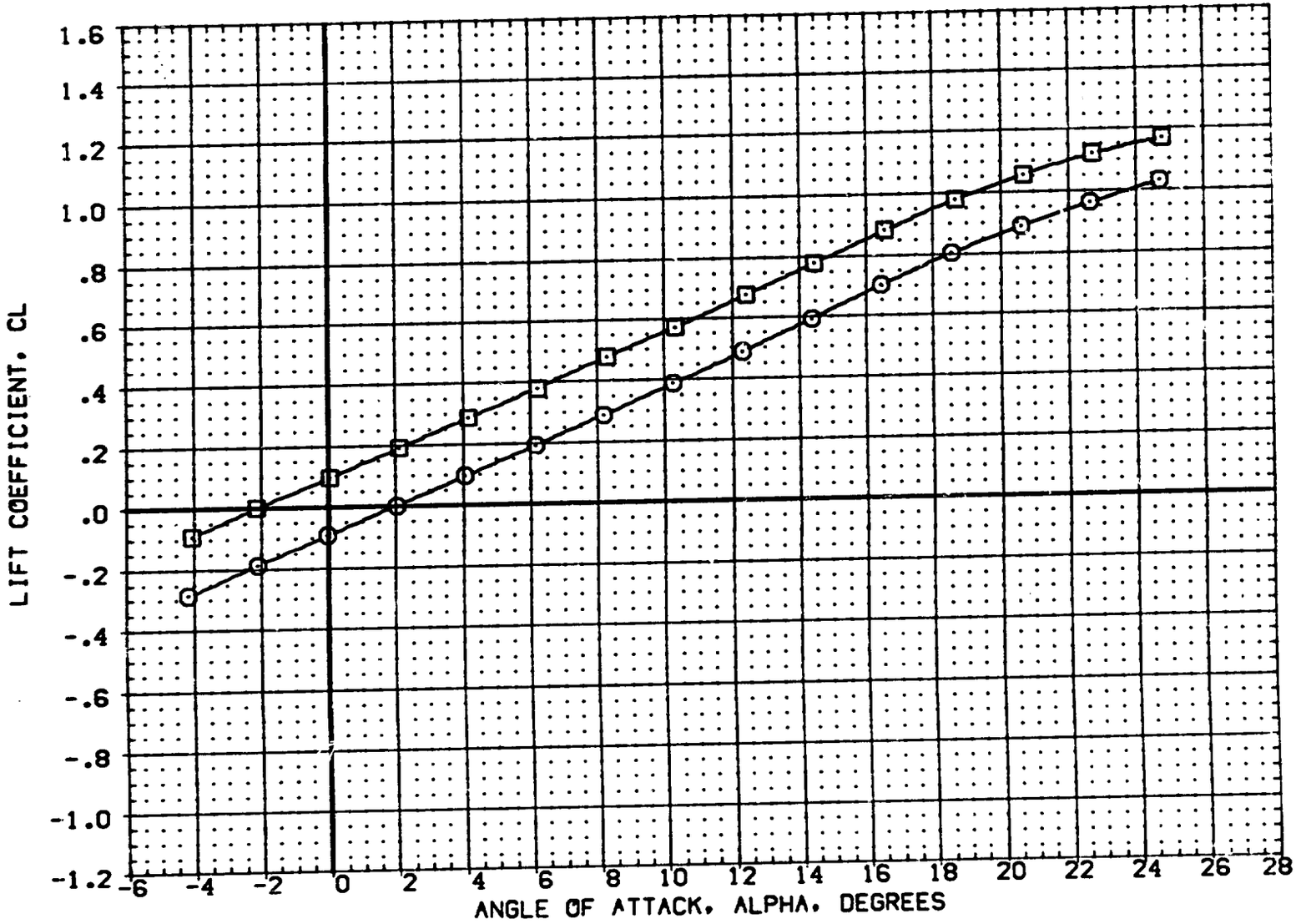


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP147)	0A21	B17C7H18M4F5	V107E23V7R6X9	
(IDP151)	0A21	B17C7H18M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

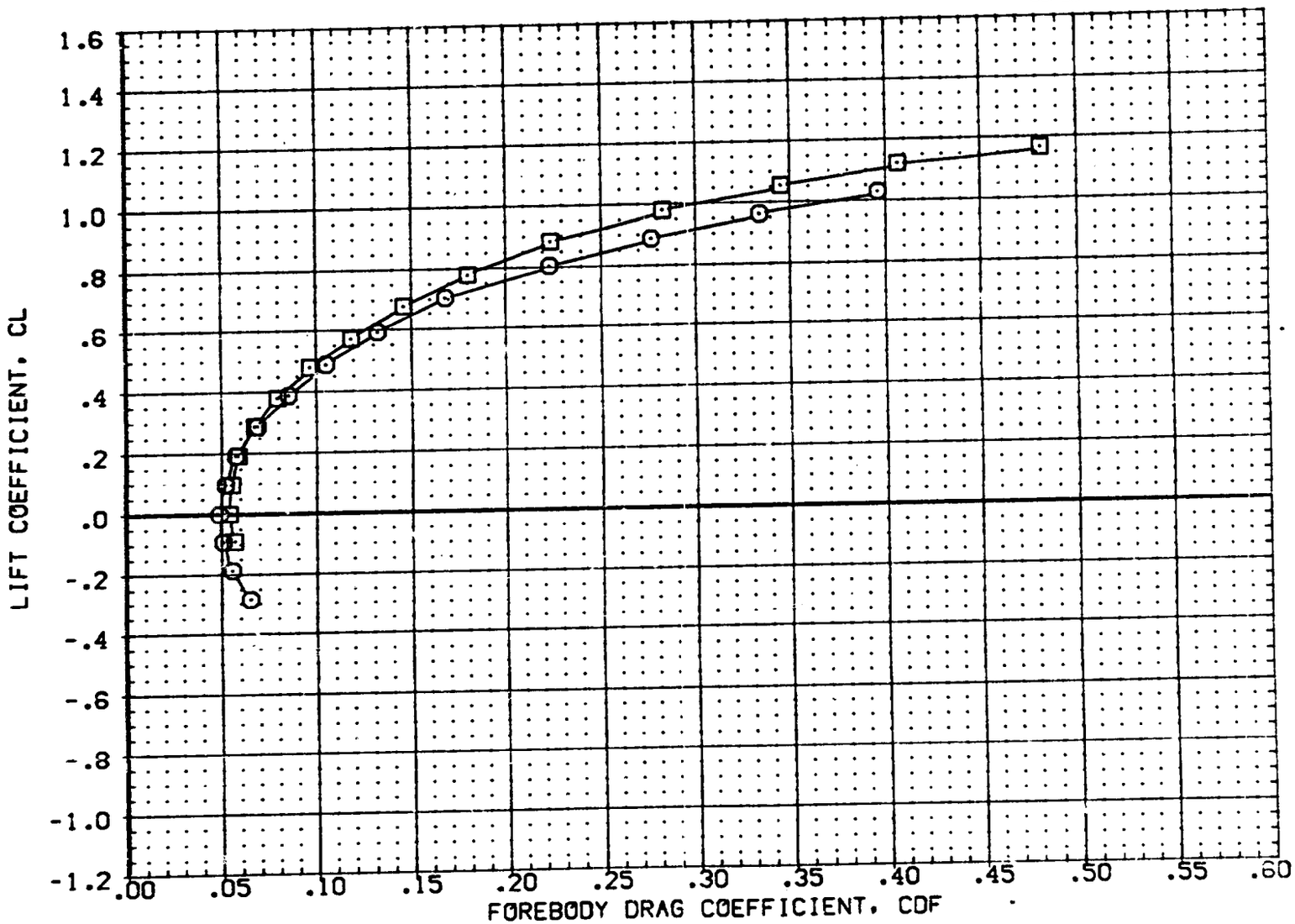


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP147)	○	0A21	B17C7H18M4F5	V107E23V7R6X9
(IDP151)	□	0A21	B17C7H18M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

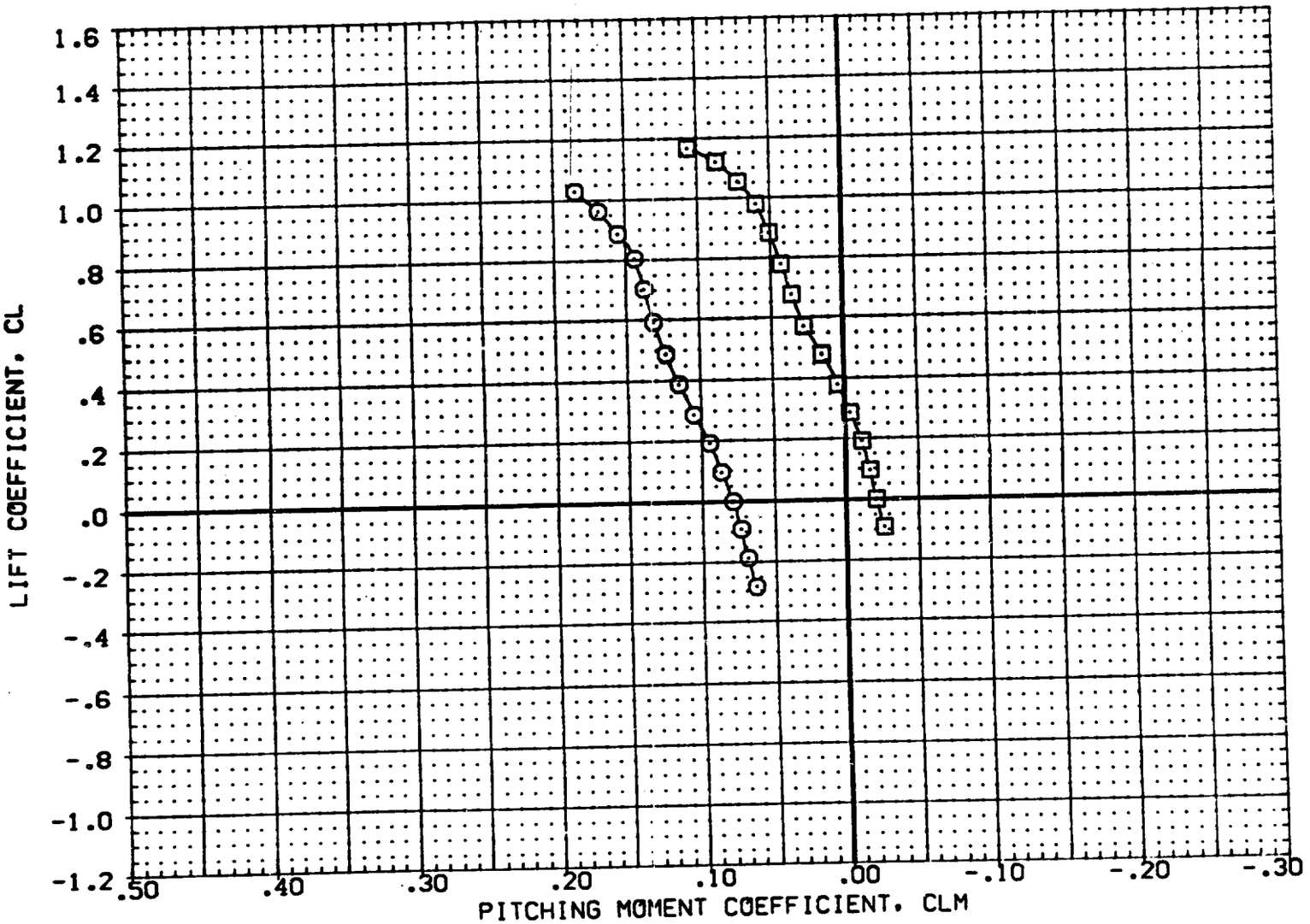


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ELEVON	AILRON	BOFLAP	SPOBRK
(1)P147	○	0A21	B17C7H18M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(1)P151	□	0A21	B17C7H18M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

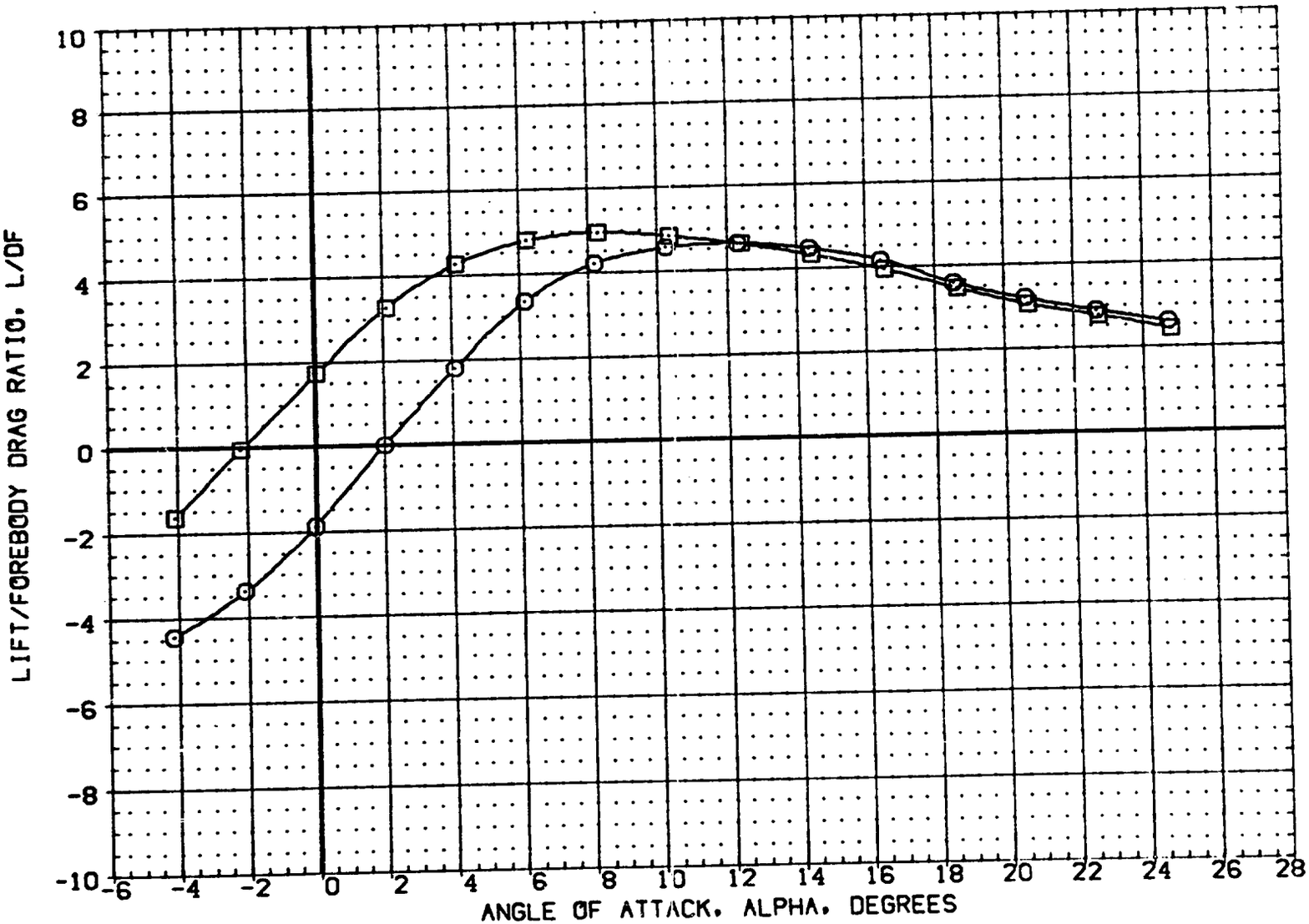


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(DP147)	○	0A21	B17C7H18M4FS	V107E23V7R6X9
(DP151)	□	0A21	B17C7H18M4FS	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

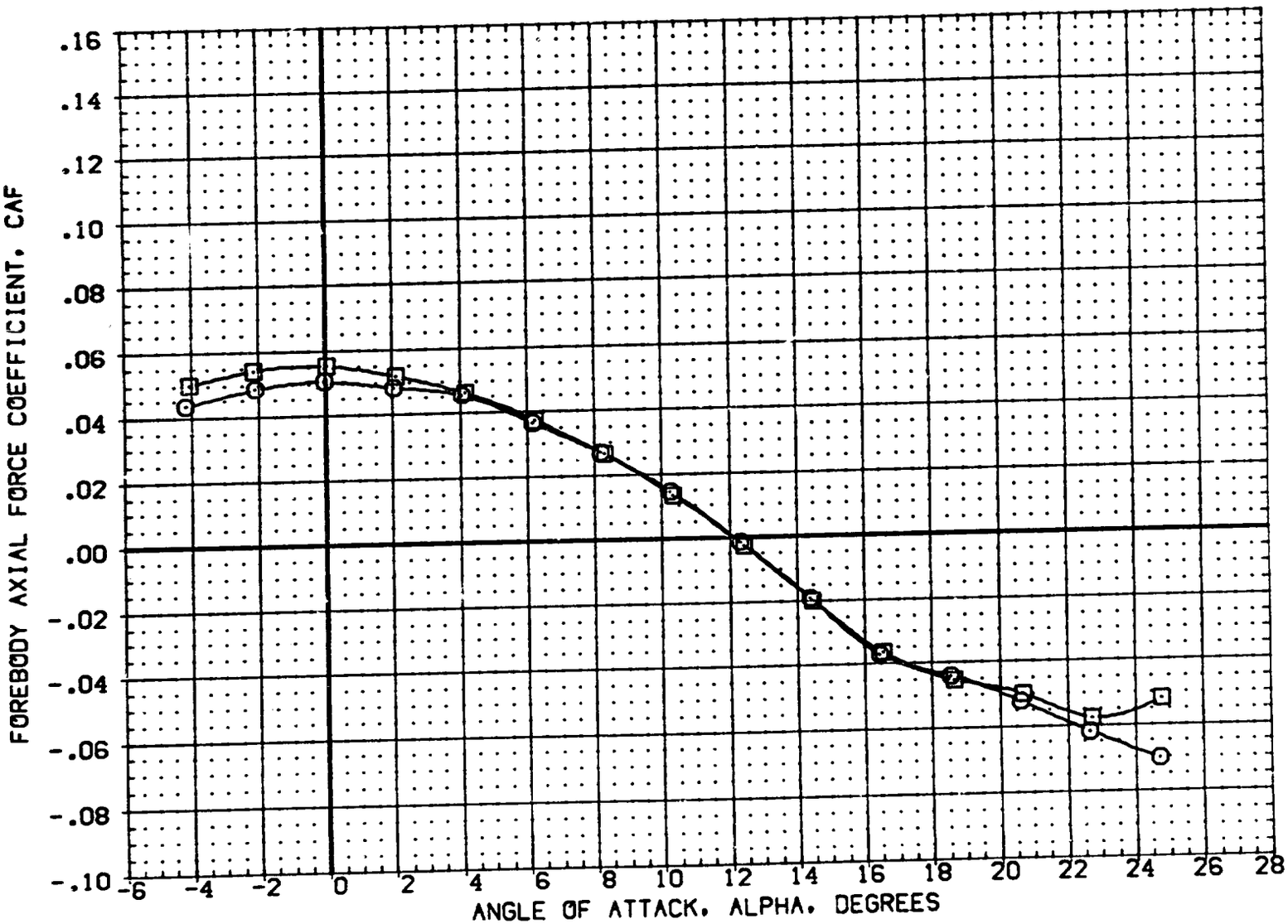


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(IDP147)	○	0A21	B17C7H18M4F5 07E23V7R6X9
(IDP151)	□	0A21	B17C7H18M4F5 07E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

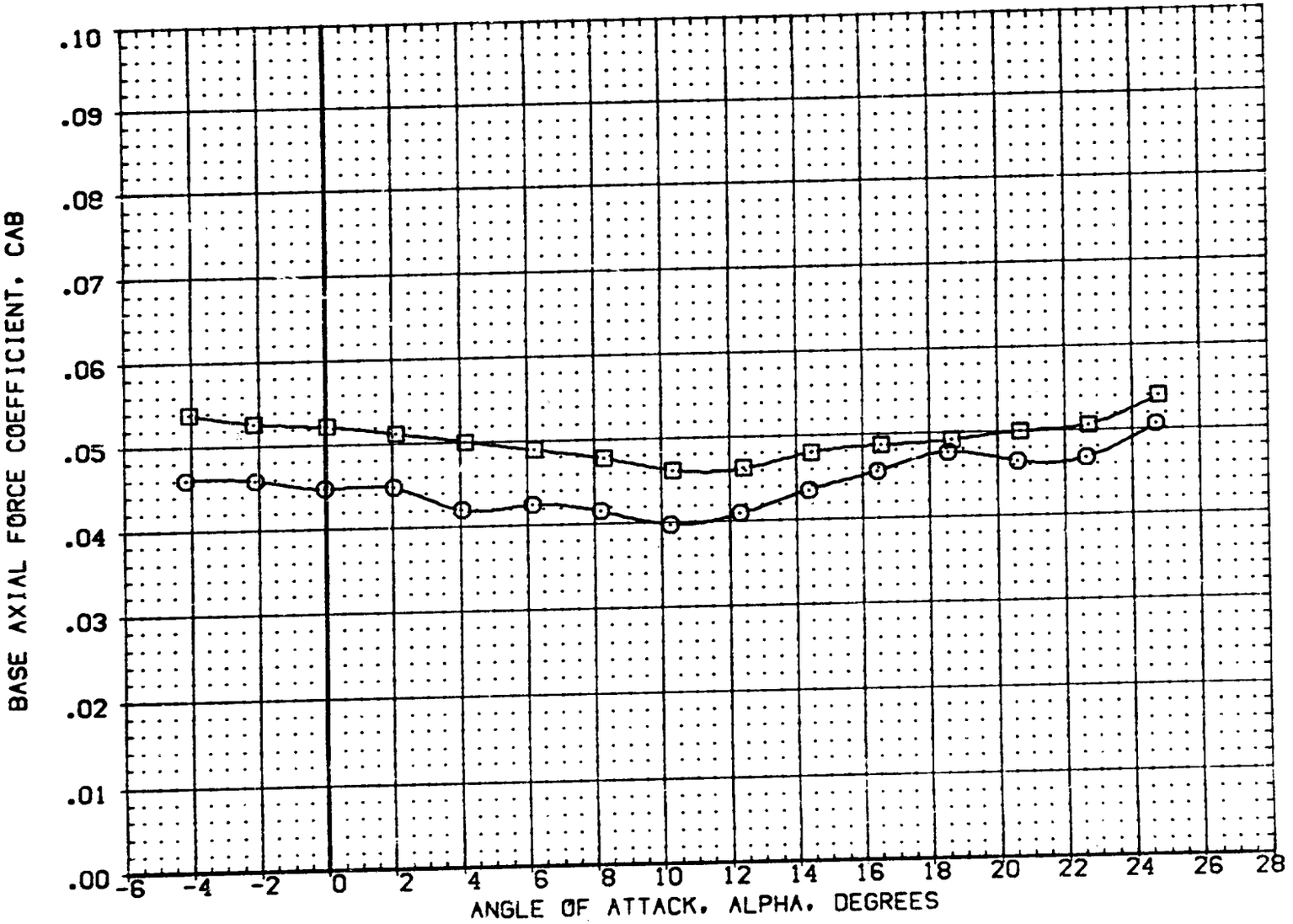


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP147)	○	0A21	B17C7H18M4F5	V107E23V7R6X9	
(IDP151)	□	0A21	B17C7H18M4F5	V107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

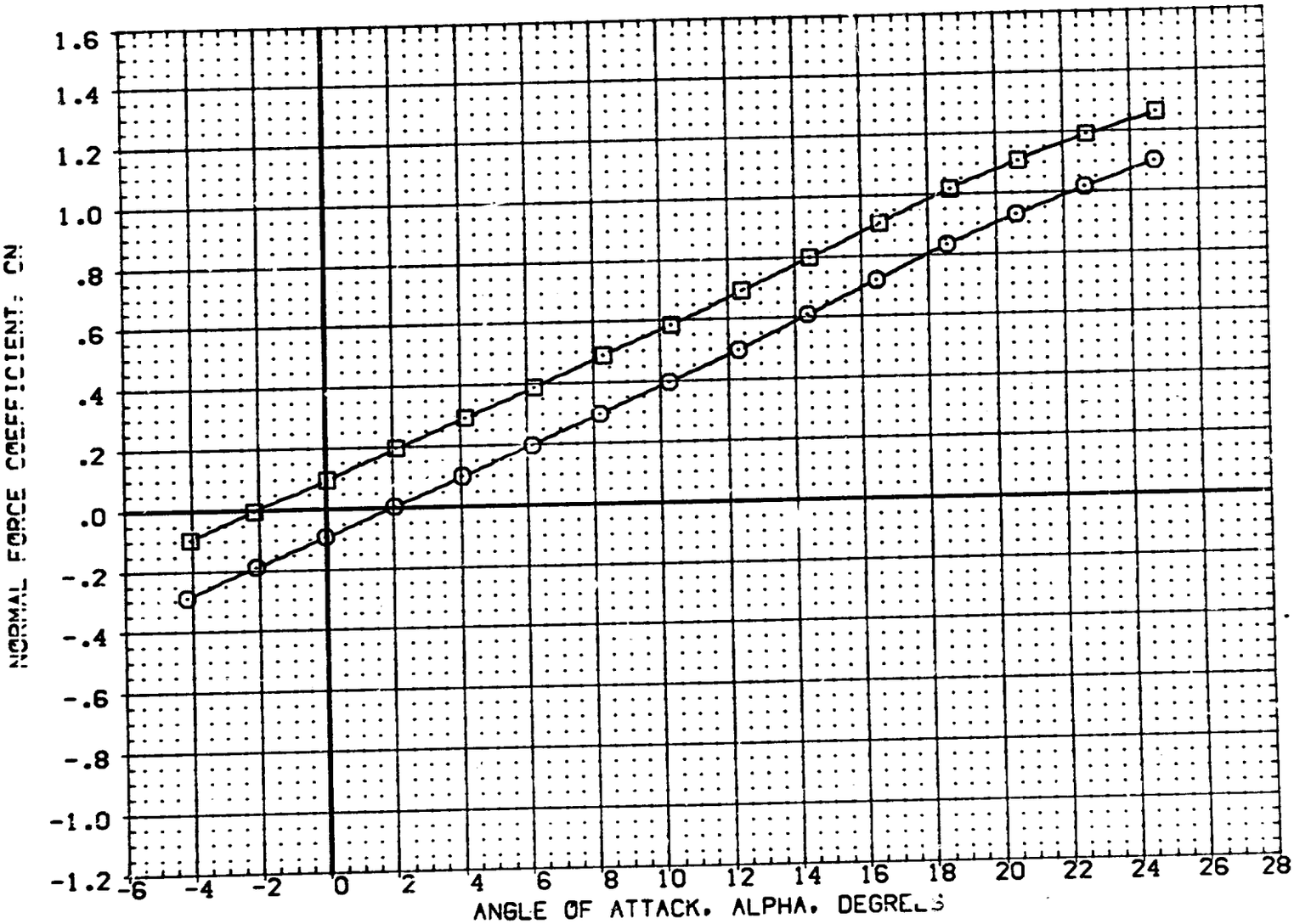


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP147)	○	0A21	B17C7H18M4F5	V107E23V7R6X9
(IDP151)	□	0A21	B17C7H18M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

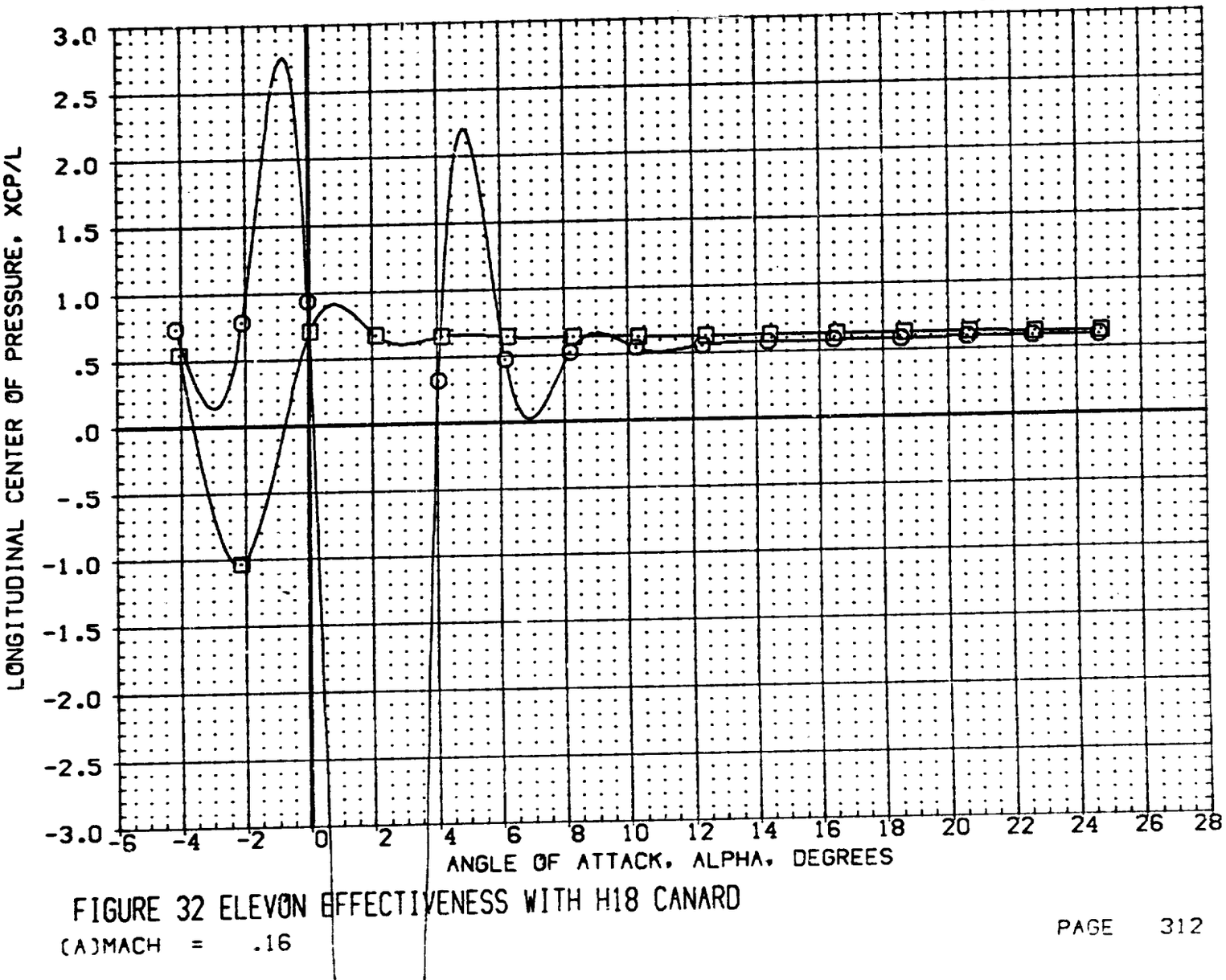


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP147)	0A21	B17C7H18M4F5	V107E23V7R6X9	
(IDP151)	0A21	B17C7H18M4F5	V107E23V7R6X9	

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

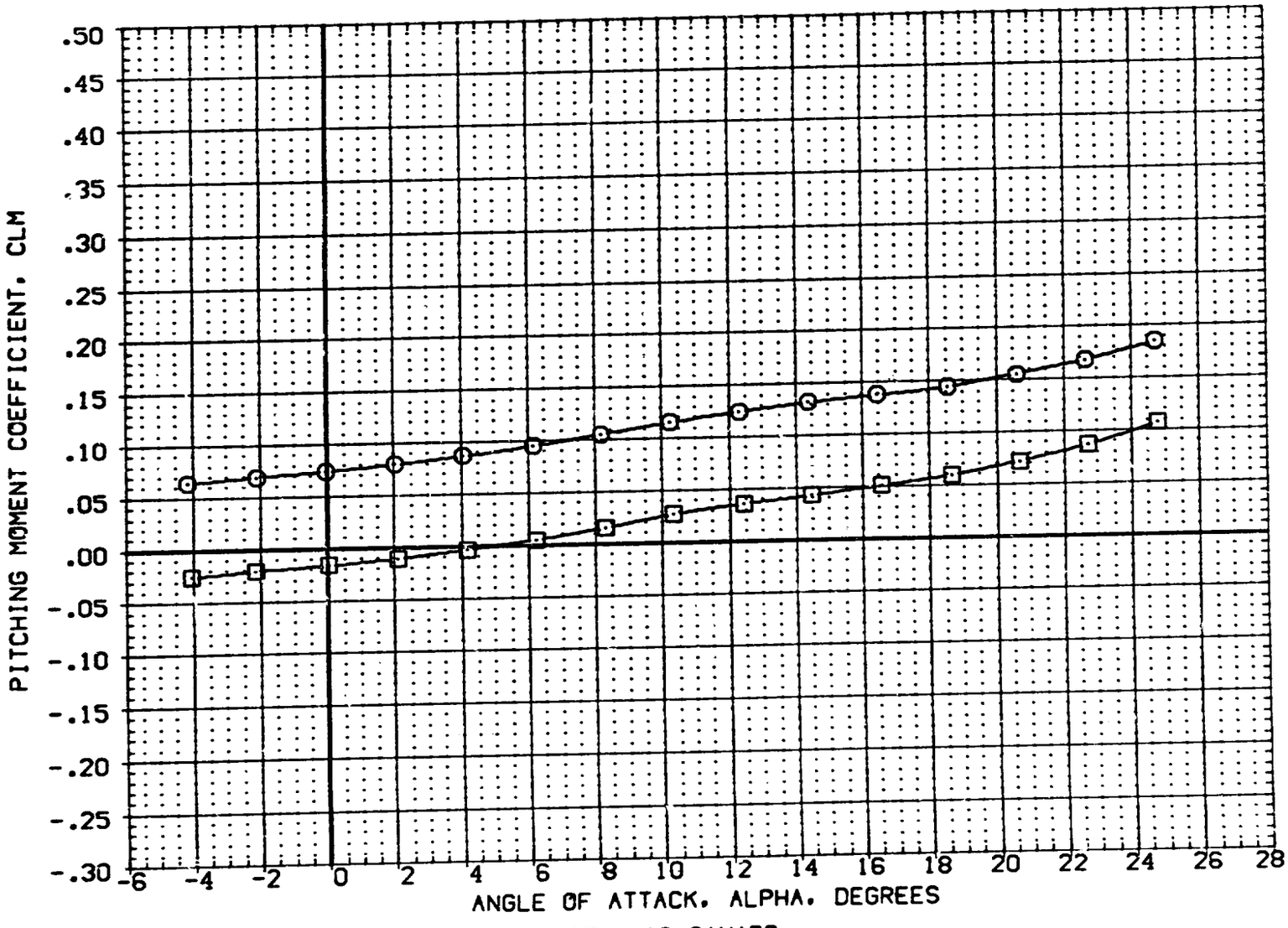


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP13:) ○ 0A21 B17C7H18M4F5 V107E23V7R6X9

MAXELE	DELELE	BOFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

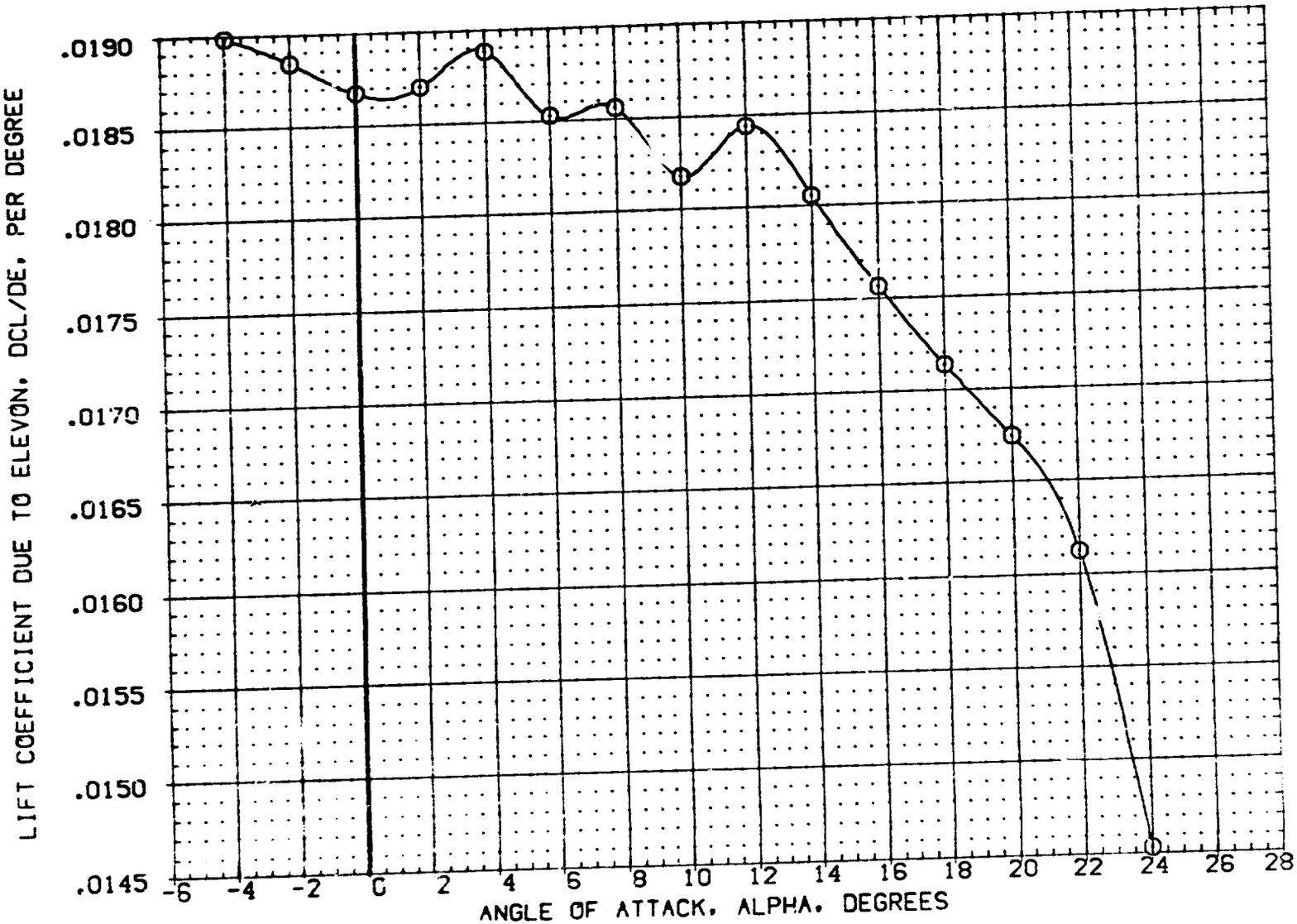


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(ODP151) ○ 0A21 B17C7H18M4FS V107C23V7R6X9

MAXELE	DELELE	BDFLAP	SPDBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2249	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

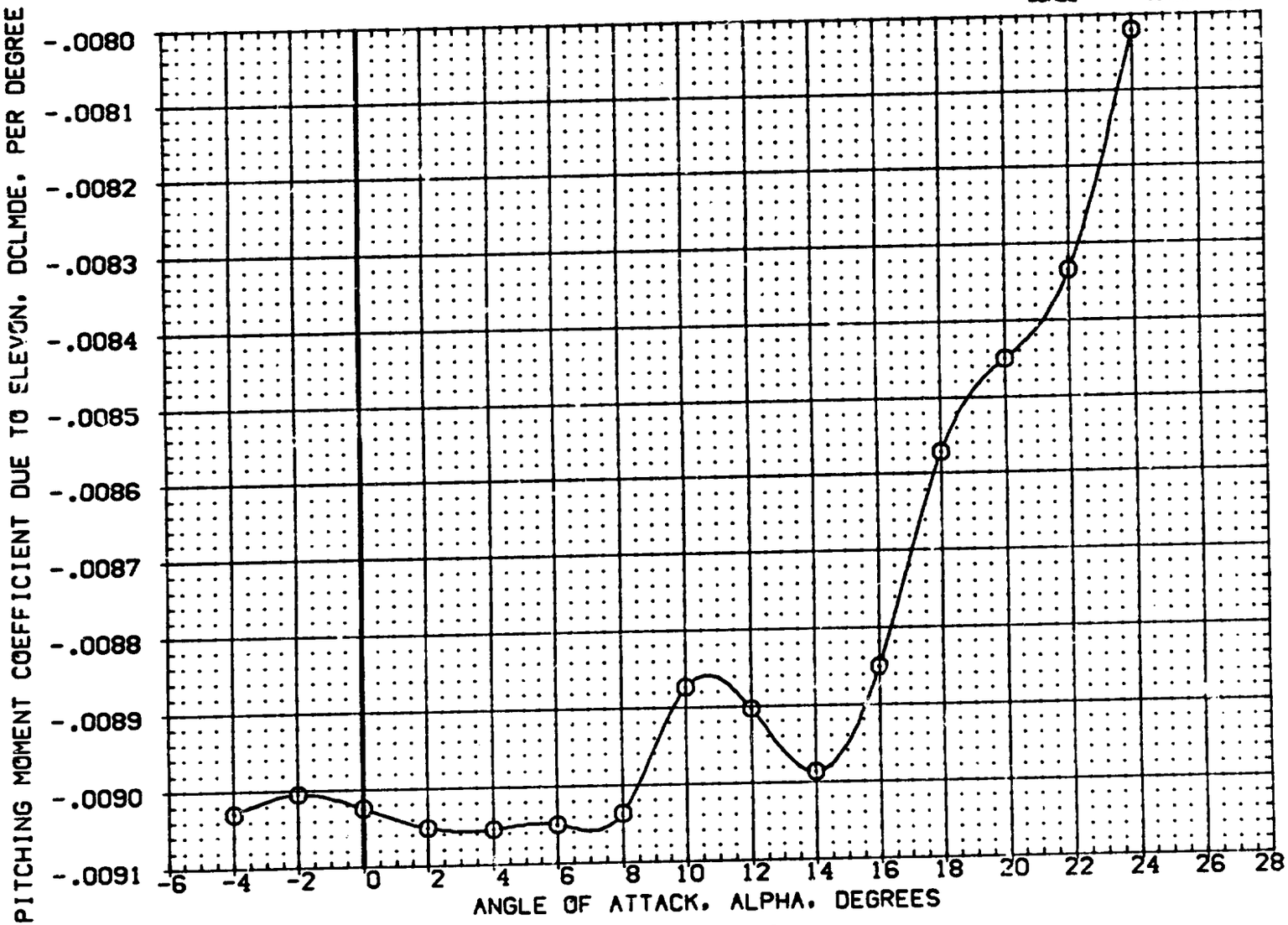


FIGURE 32 ELEVON EFFECTIVENESS WITH H18 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP164)	○	0A21	B17C7H19M4F5	V107E23V7R6	X9
(IDP167)	□	0A21	B17C7H19M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

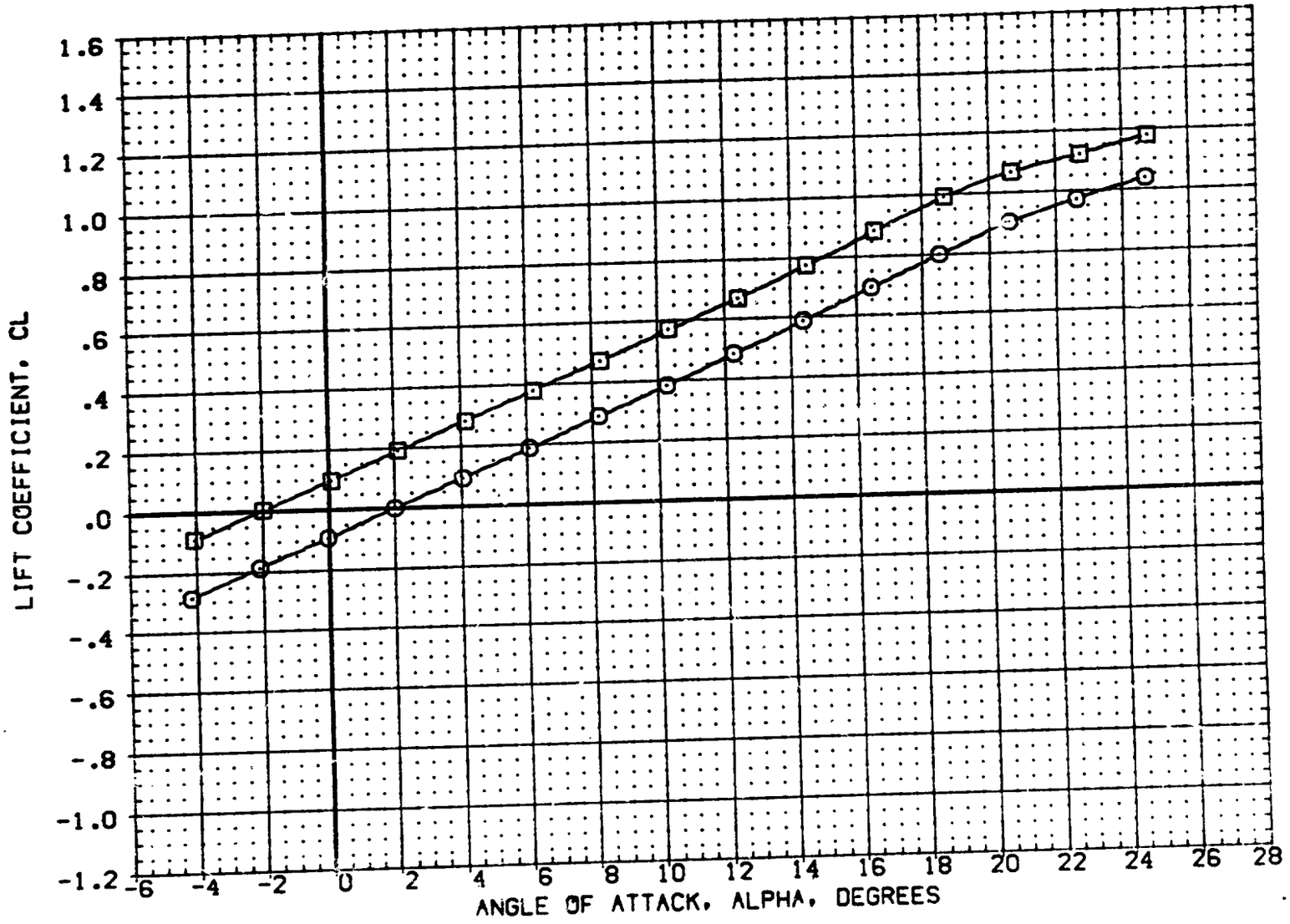


FIGURE 33 ELEVON EFFECTIVENESS WITH HIS CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP164)	○	0A21	B17C7H19M4F5	V107E23V7R6	X9
(IDP167)	□	0A21	B17C7H19M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

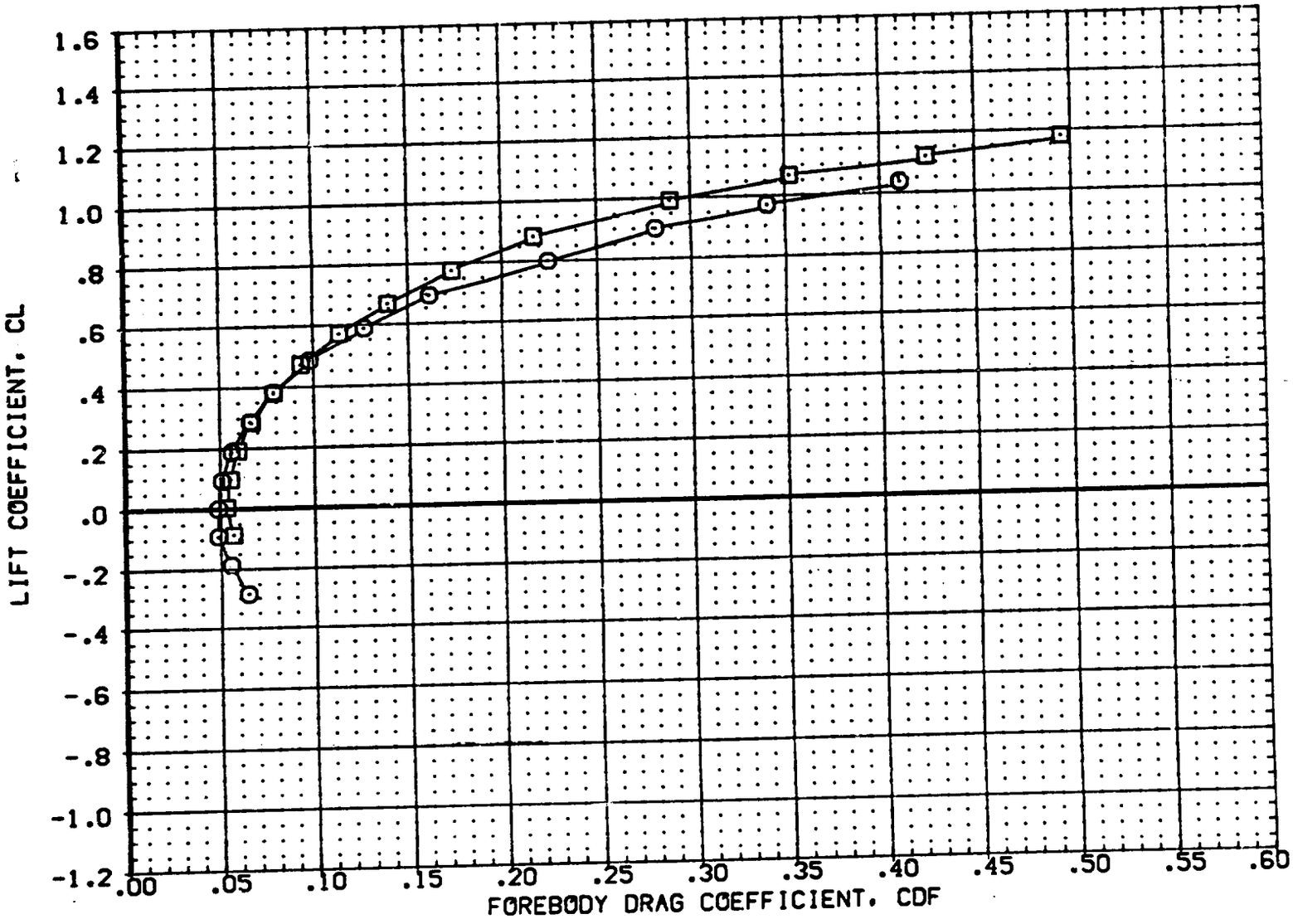


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ELEVON	AILRON	BOFLAP	SPDBRK
(IDP164)	0A21	B17C7H19M4F5	V107E23V7R6	X9	.000	.000	-18.000	55.000
(IDP167)	0A21	B17C7H19M4F5	V107E23V7R6	X9	10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

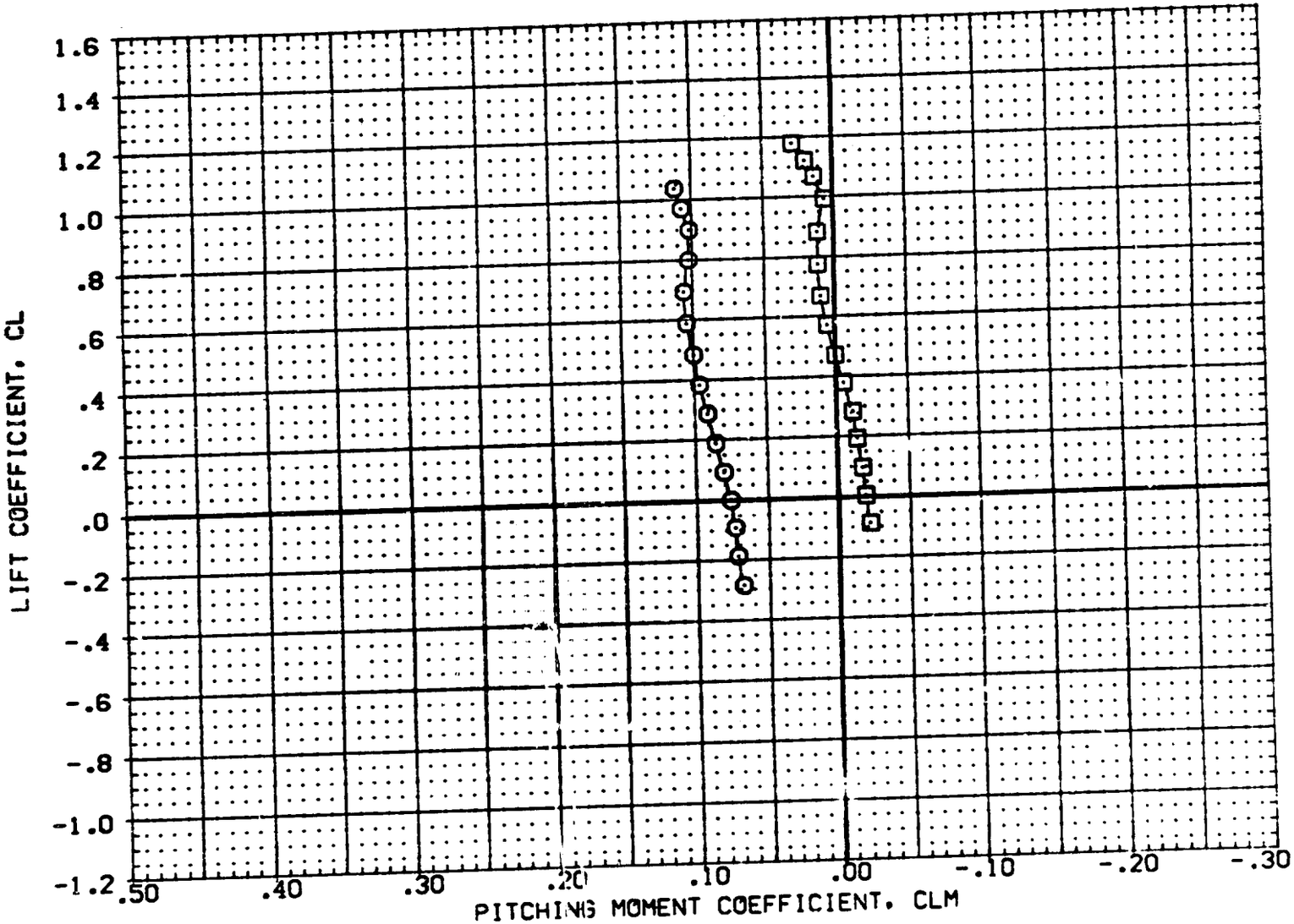


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP164)	○	0A21	B17C7H19M4F5	V1L17E23V7R6	XSI
(IDP167)	□	0A21	B17C7H19M4F5	V1C7E23V7R6	XSI

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE

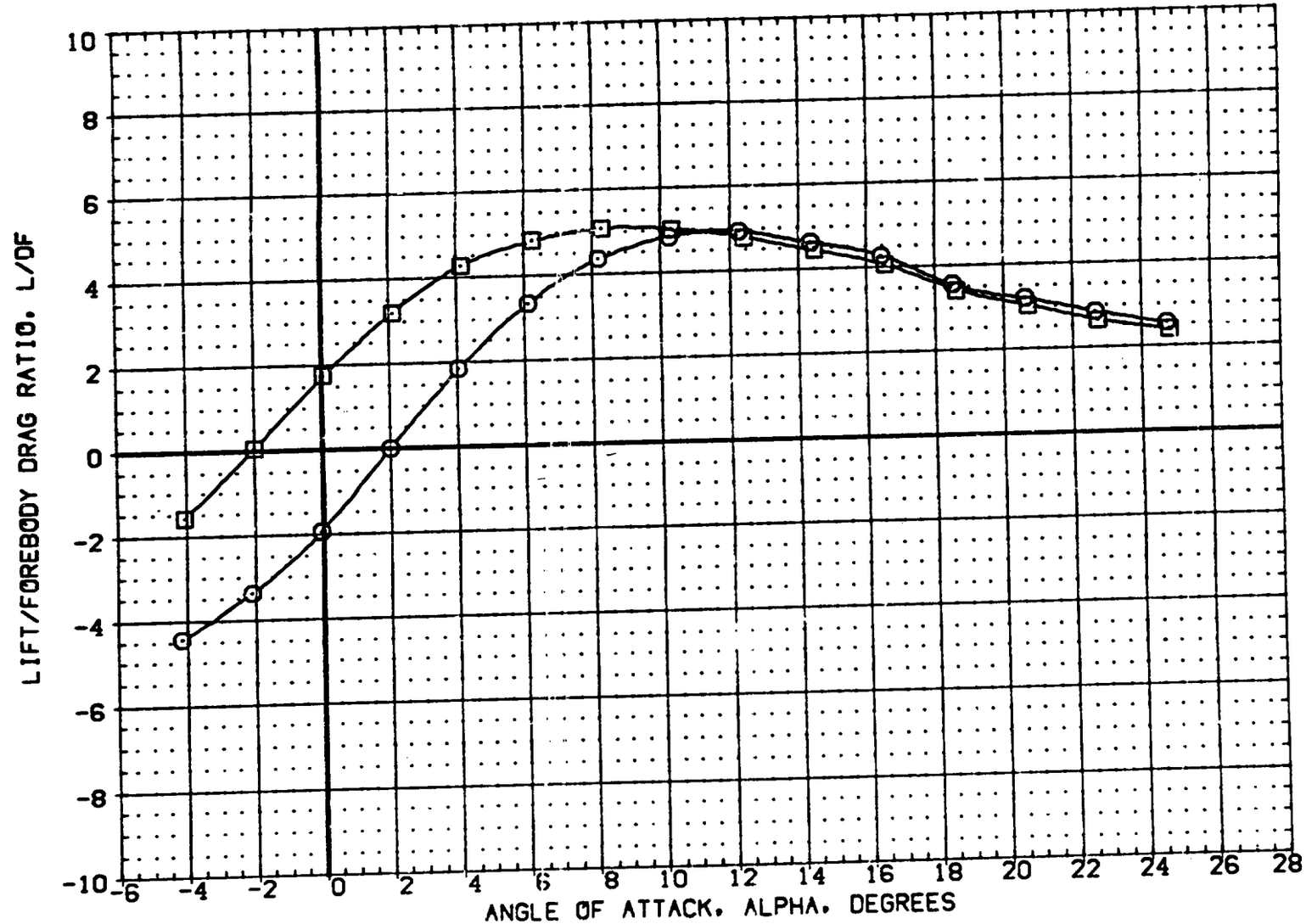


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP164)	○	0A21	B17C7H19M4F5	V107E23V7R6	X4
(IDP167)	□	0A21	B17C7H19M4F5	V107E23V7R6	X4

ELEVON	AILRON	FLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5574	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0105	SCALE

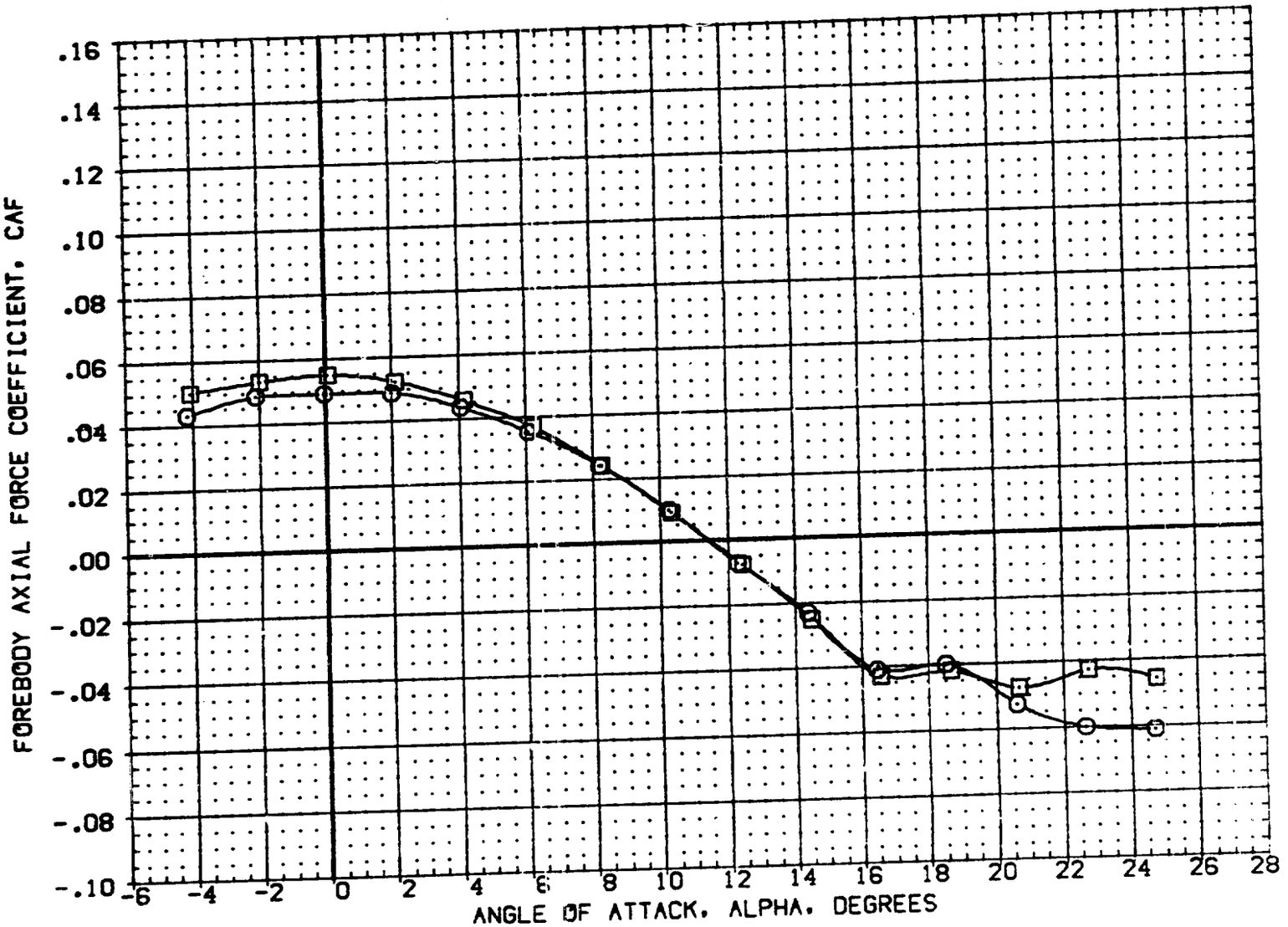


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IOP164)	○	0A21	B17C7H19M4F5	V107E23V7R6	X9
(IOP167)	□	0A21	B17C7H19M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

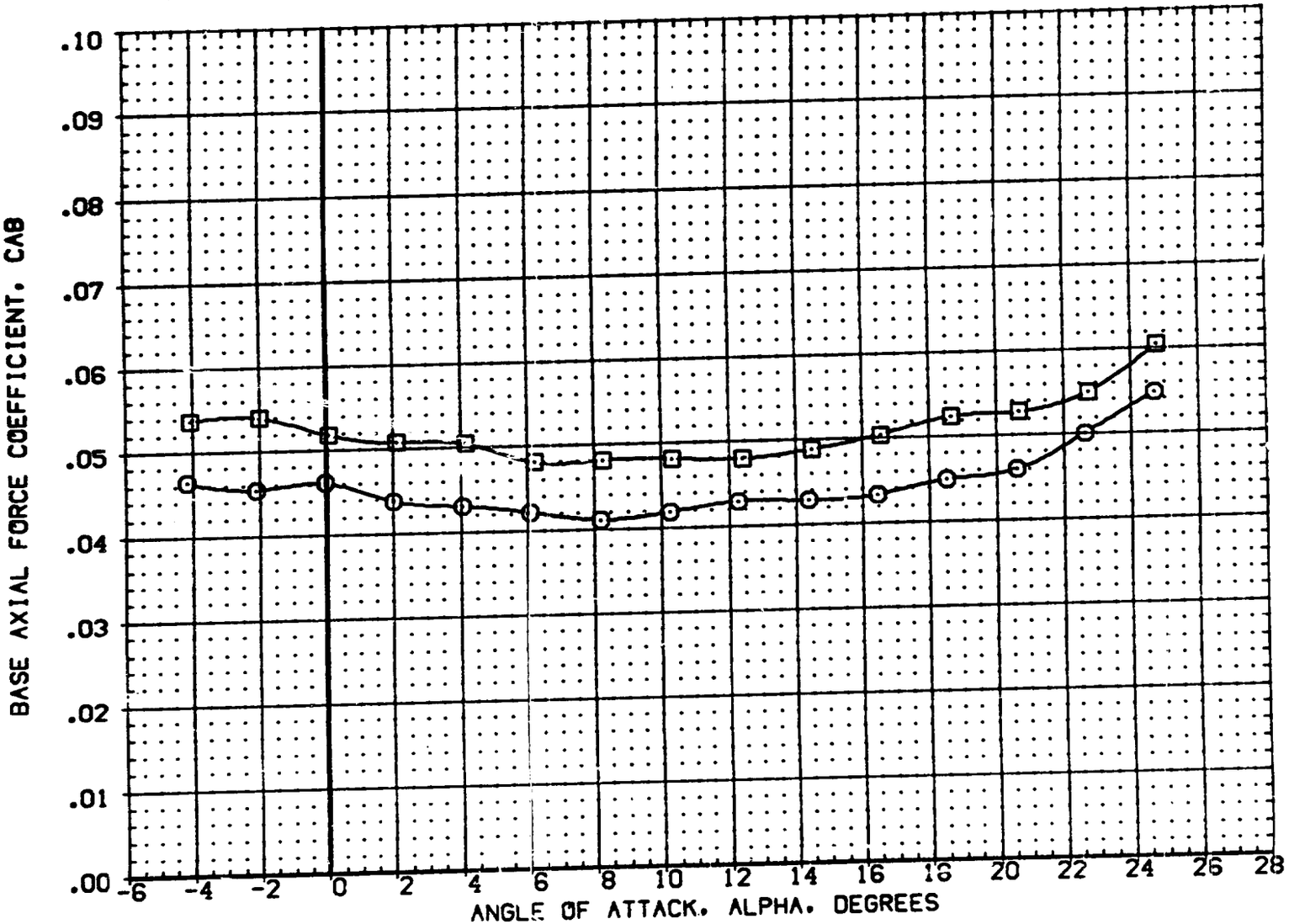


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP164)	8	0A21	B17C7H19M4F5	W107E23V7R6	X9
(IDP167)	8	0A21	B17C7H19M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

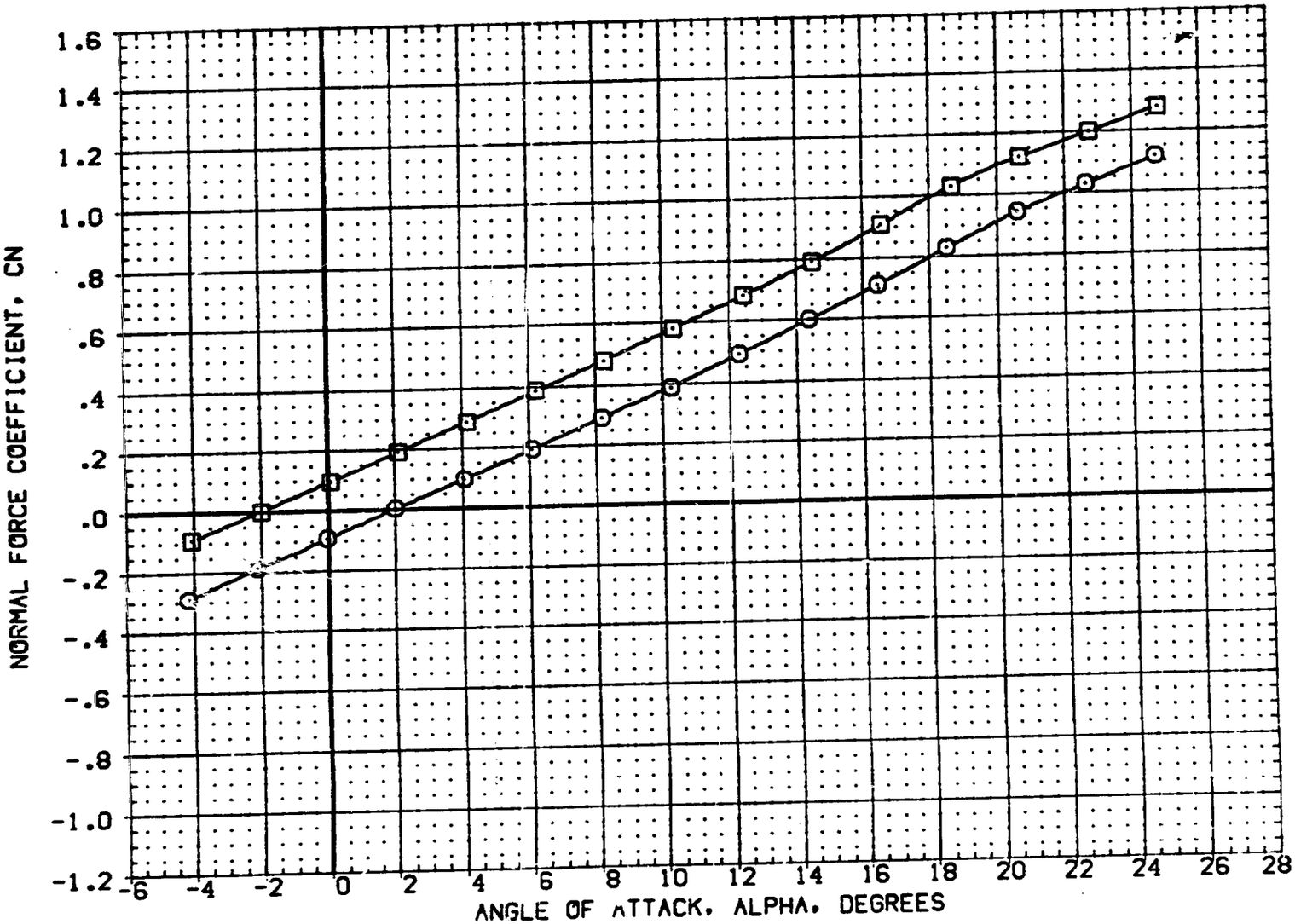


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

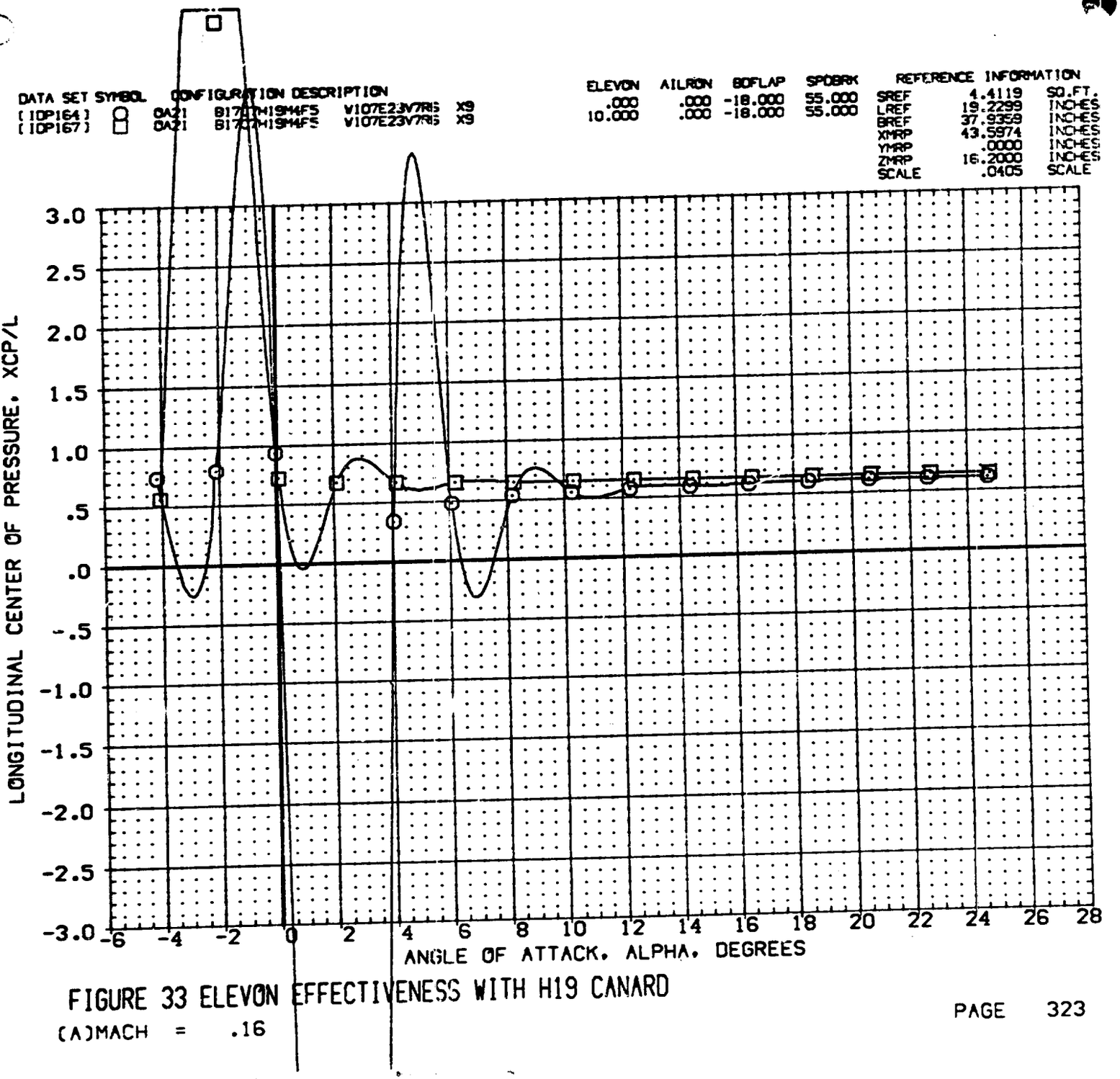


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP164)	○	0A21	B17C7H19M4F5	V107E23V7R6	X9
(IDP167)	□	5A21	B17C7H19M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

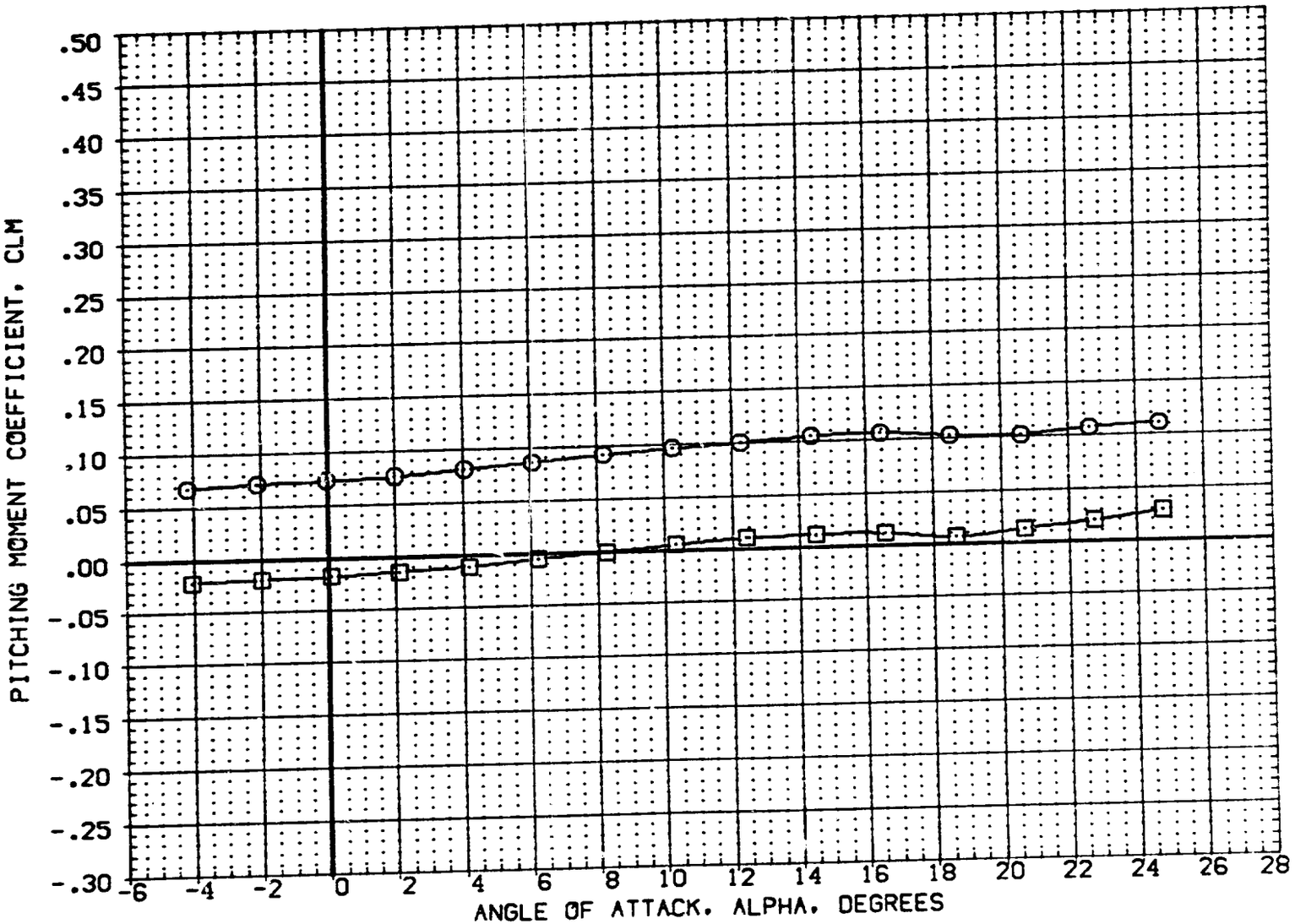


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(DDP167) ○ 0A21 B17C7H19M4F5 V107E23V7R6 X9

MIXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

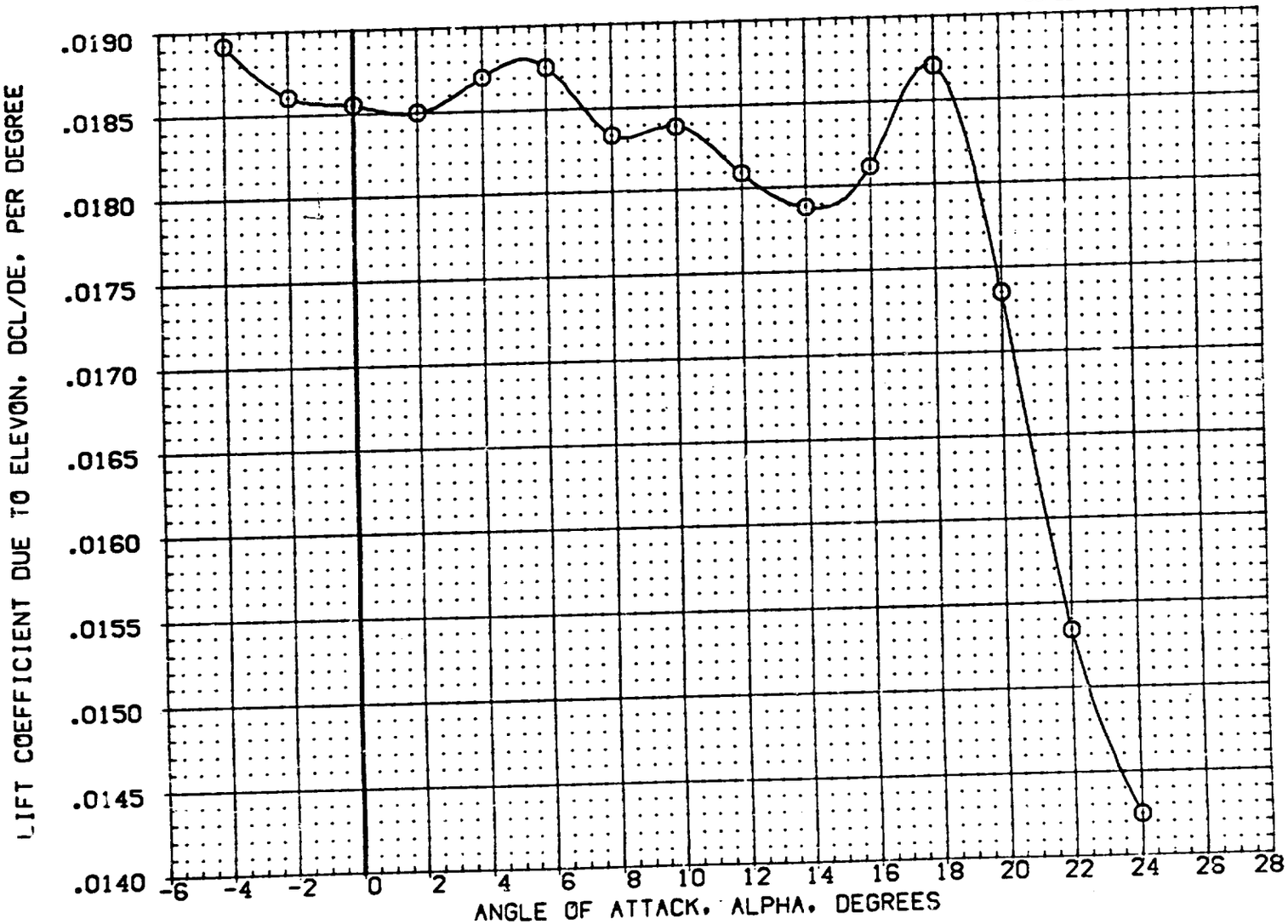


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP167) ○ 0A21 B17C7H19M4F5 V107E23V7R6 XS

MAXELE	DELELE	BOFLAP	SPOBRK
10.000	10.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

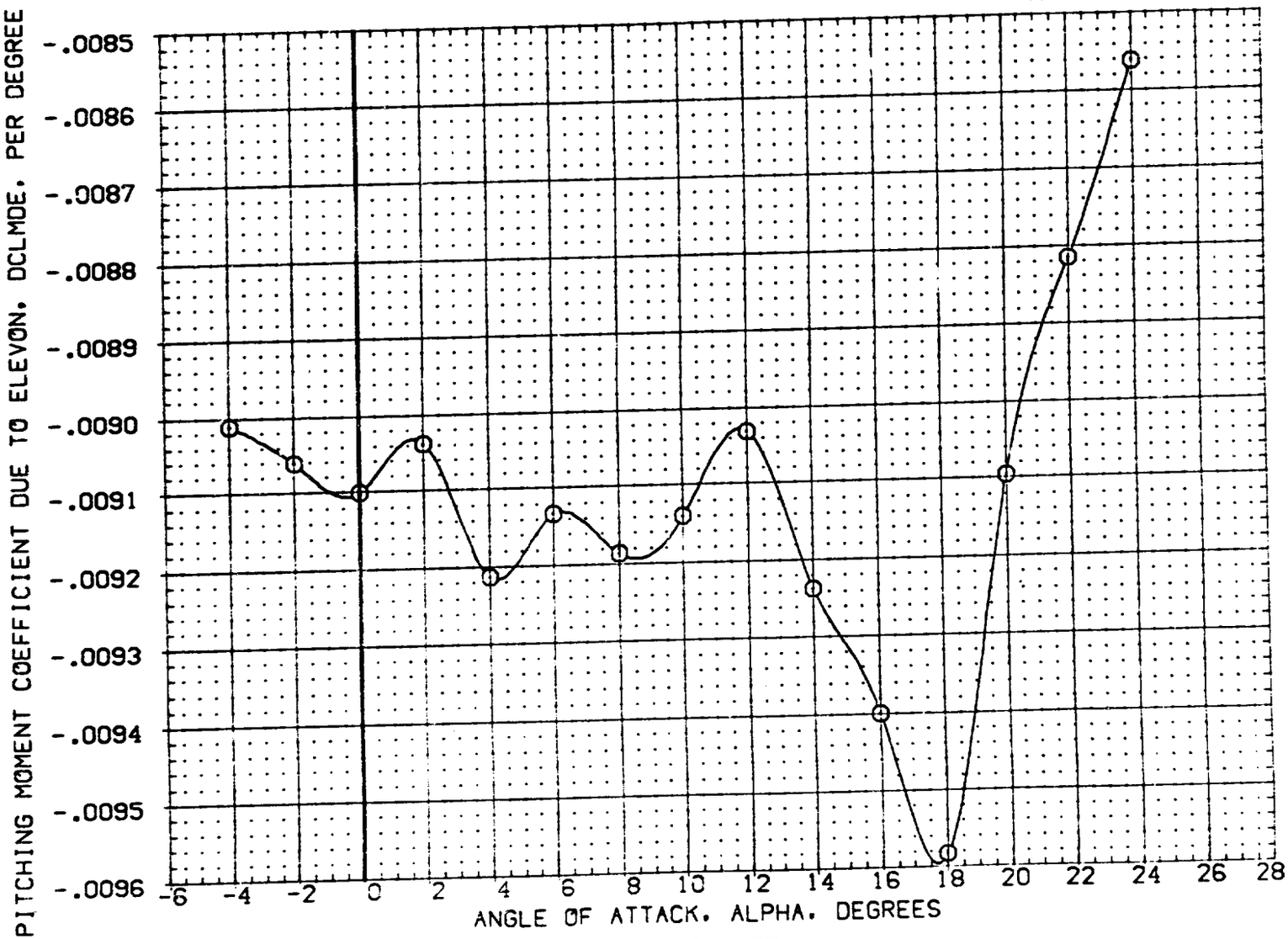


FIGURE 33 ELEVON EFFECTIVENESS WITH H19 CANARD

(A)MACH = .16

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	CA21	B17C7	M4F5	W107E23V7R6	X9
(IDP172)	□	CA21	B17C7	M4F5	W107E23V7R6	X9
(IDP173)	◇	CA21	B17C7	M4F5	W107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

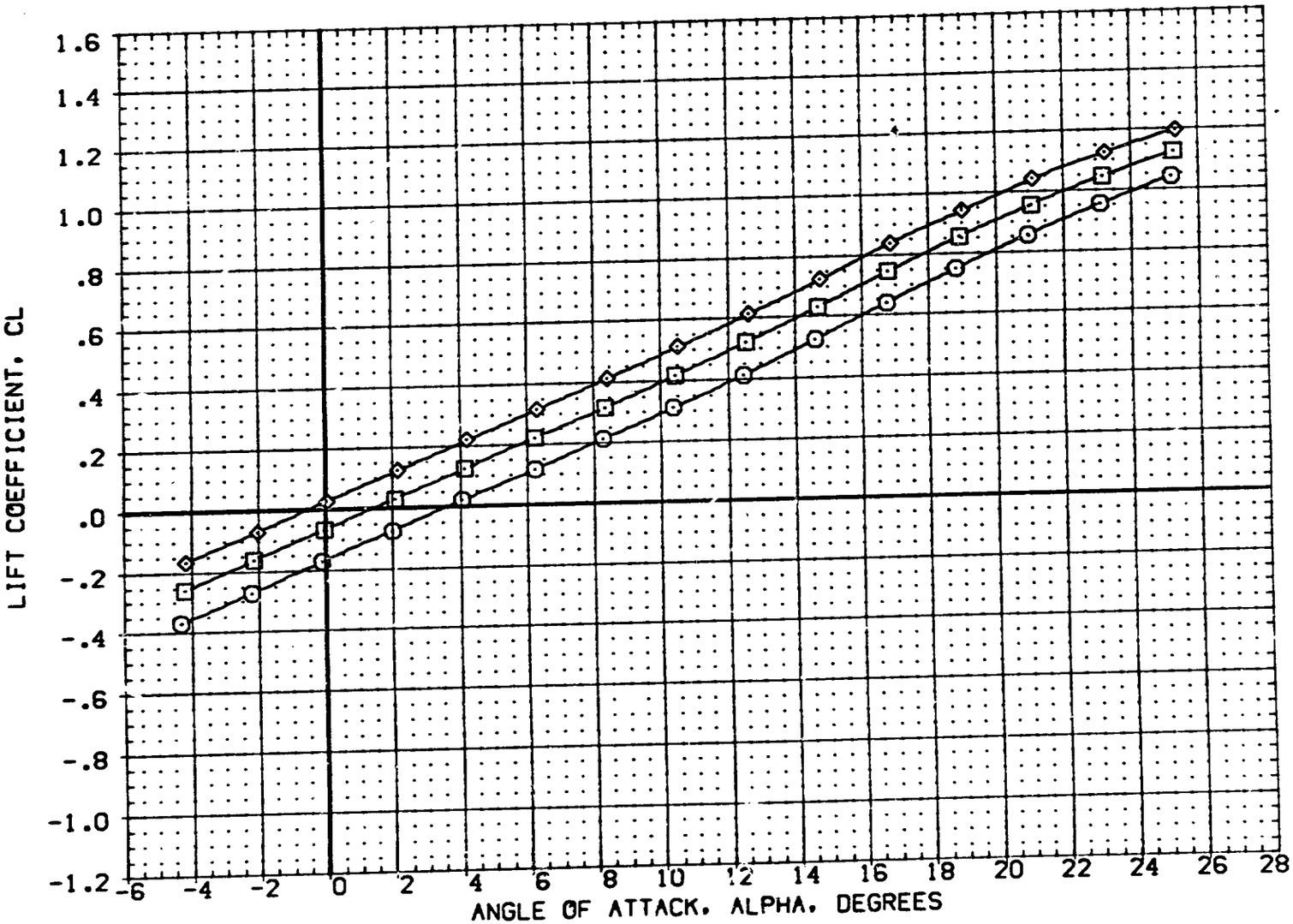


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	W107E23V7R6	X9
(IDP172)	□	0A21	B17C7	M4F5	W107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	W107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

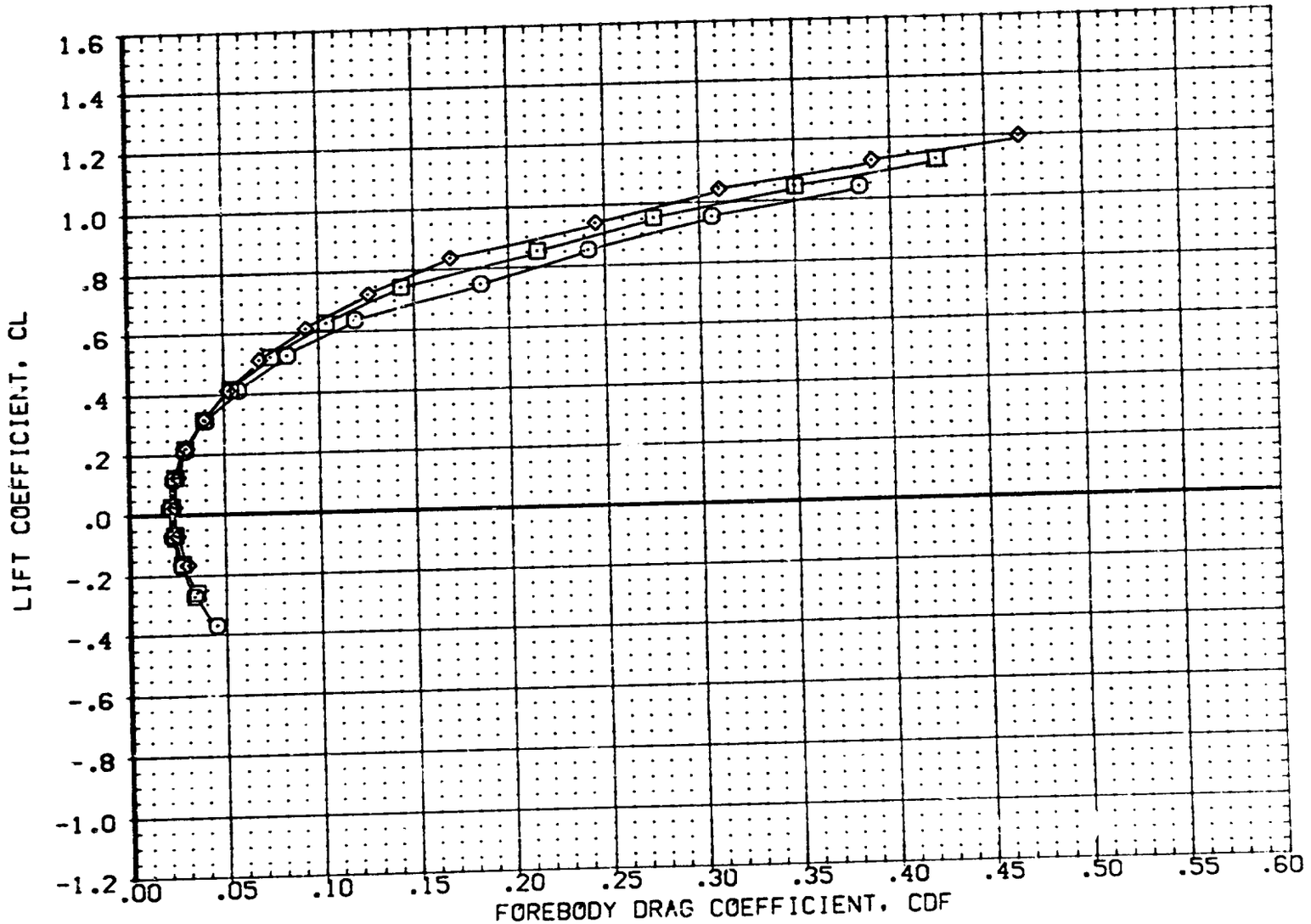


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2718	INCHES
BREF	37.9318	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

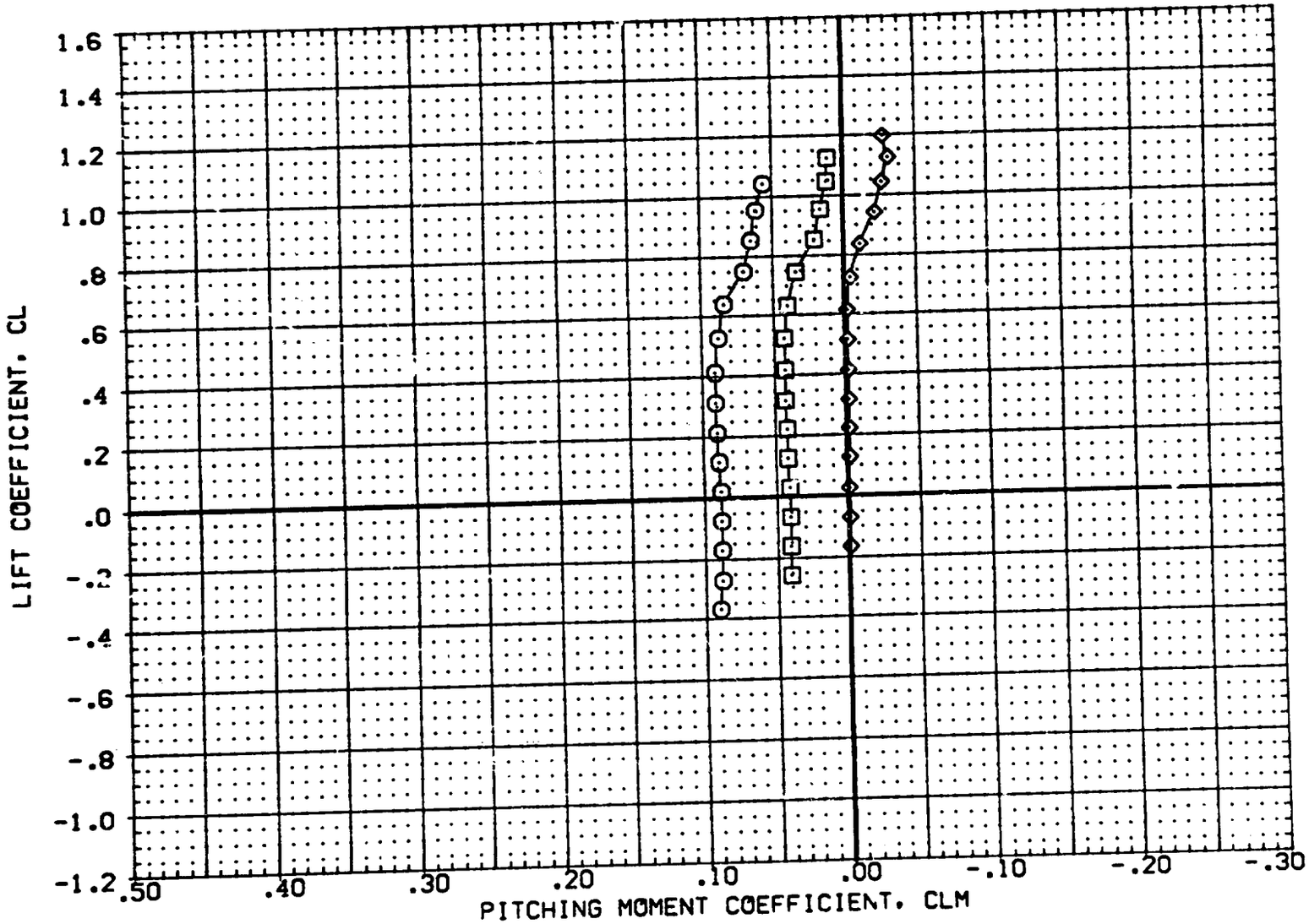


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(1DP174)	□	GA21	B17C7	M4F5	V107E23V7R6	X9
(1DP172)	⊡	GA21	B17C7	M4F5	V107E23V7R6	X9
(1DP173)	◇	GA21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILERON	BDFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

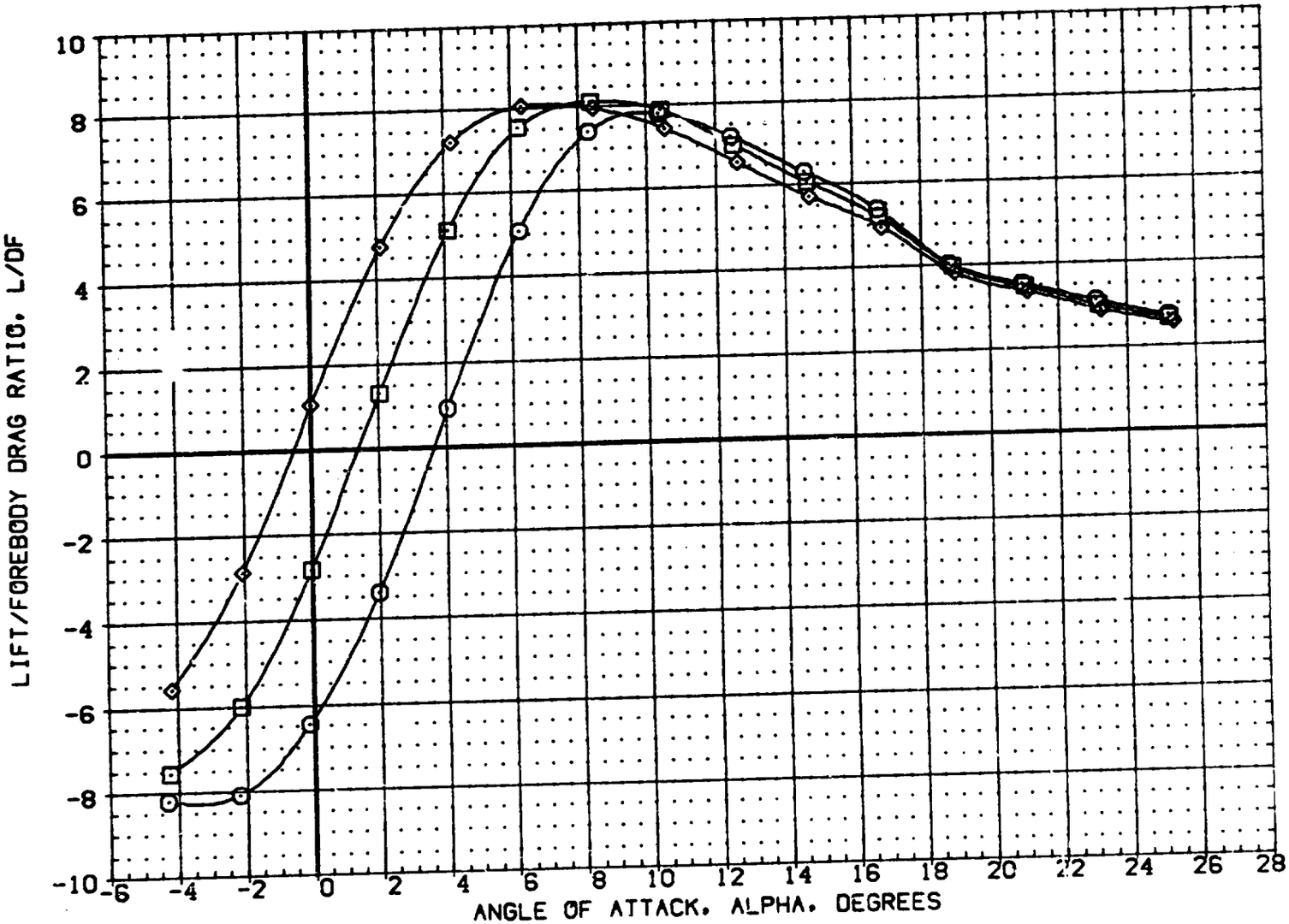


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPDBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(1DP174)	○	0A21	B17C7	M4F5	V107E23V7R6	X9
(1DP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(1DP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	BDFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

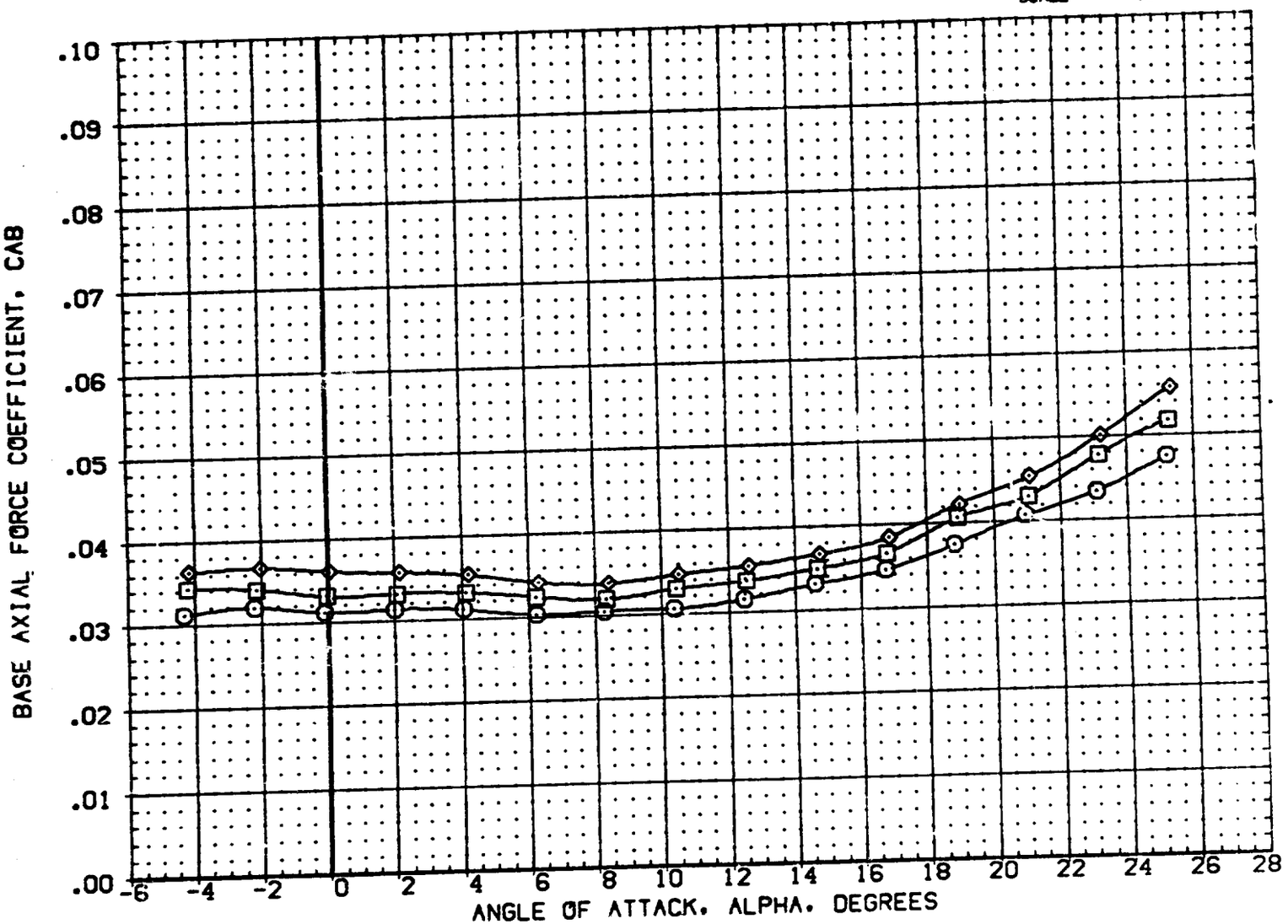


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5574	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0105	SCALE

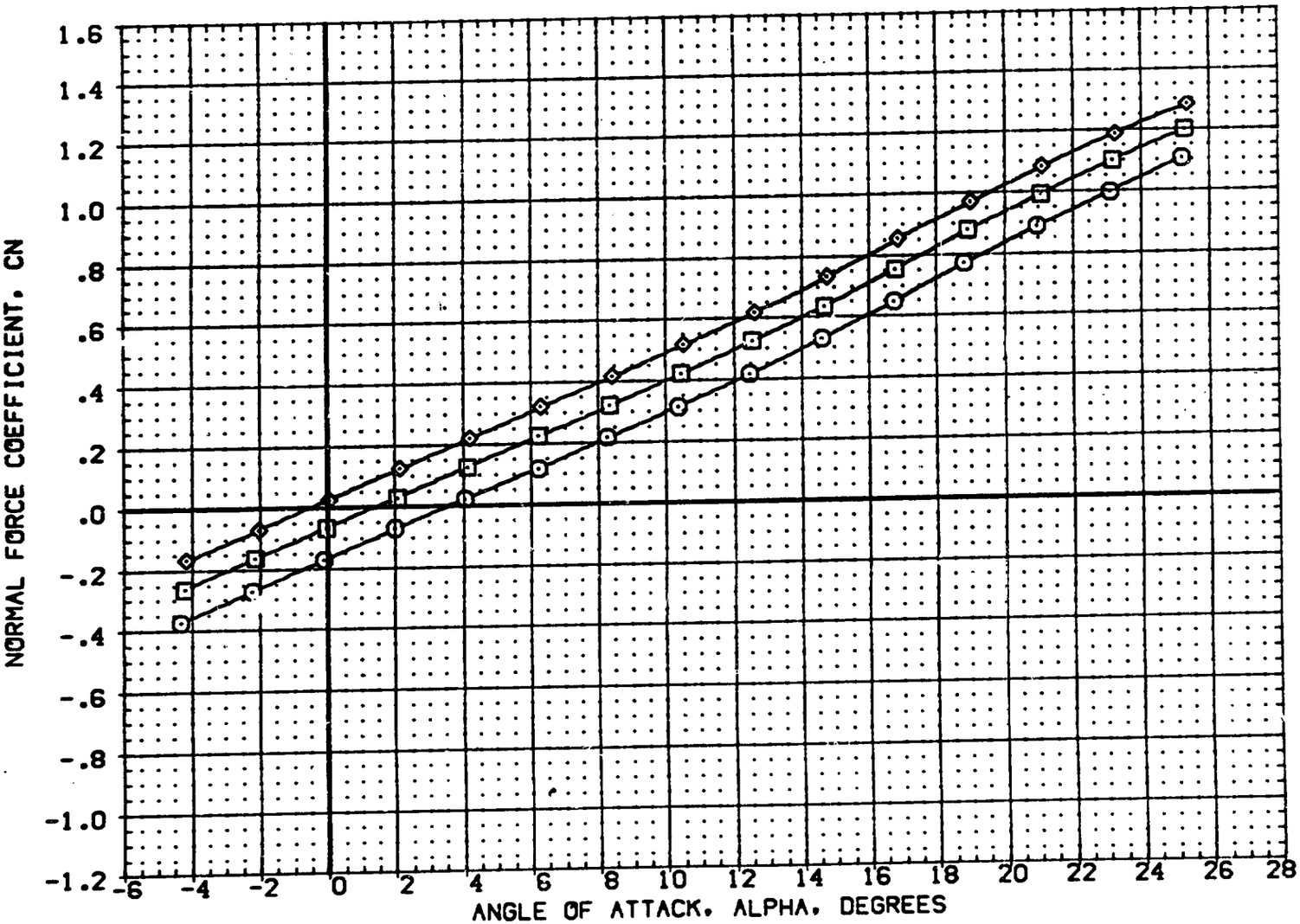


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	V107E23V7R_	X9
(IDP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	BOFLAP	SPOBR(
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(IDP174)	○	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP172)	□	0A21	B17C7	M4F5	V107E23V7R6	X9
(IDP173)	◇	0A21	B17C7	M4F5	V107E23V7R6	X9

ELEVON	AILRON	SOFLAP	SPOBRK
-.500	.000	-18.000	.000
.000	.000	-18.000	.000
5.000	.000	-18.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

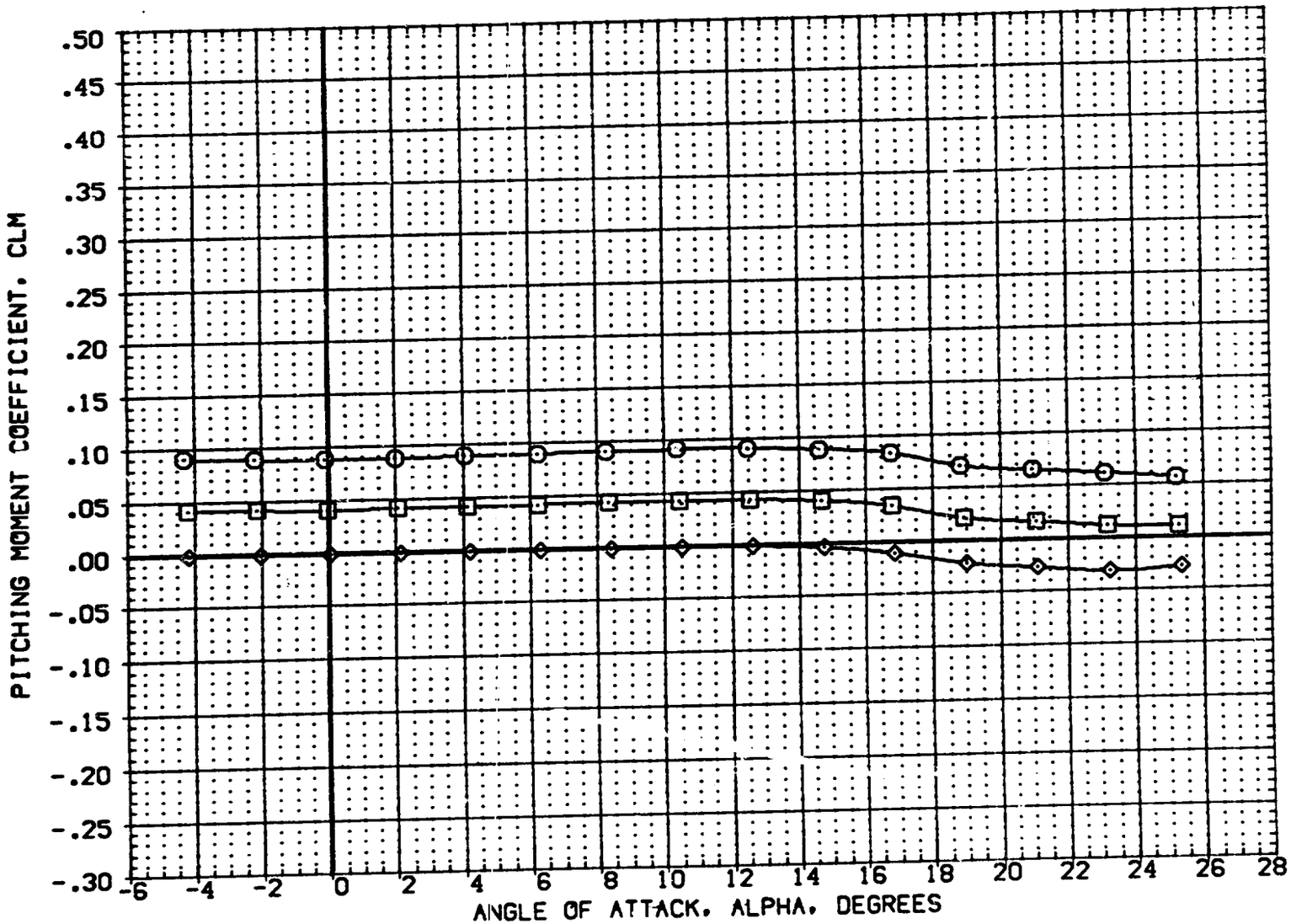


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP173) ○ 0A21 B17C7 M4F5 V107E23V7R6 X9

NAXELE	DELELE	BOFLAP	SPOBRK
5.000	10.000	-18.000	.000

REFERENCE INFORMATION

SREF	4.4116	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

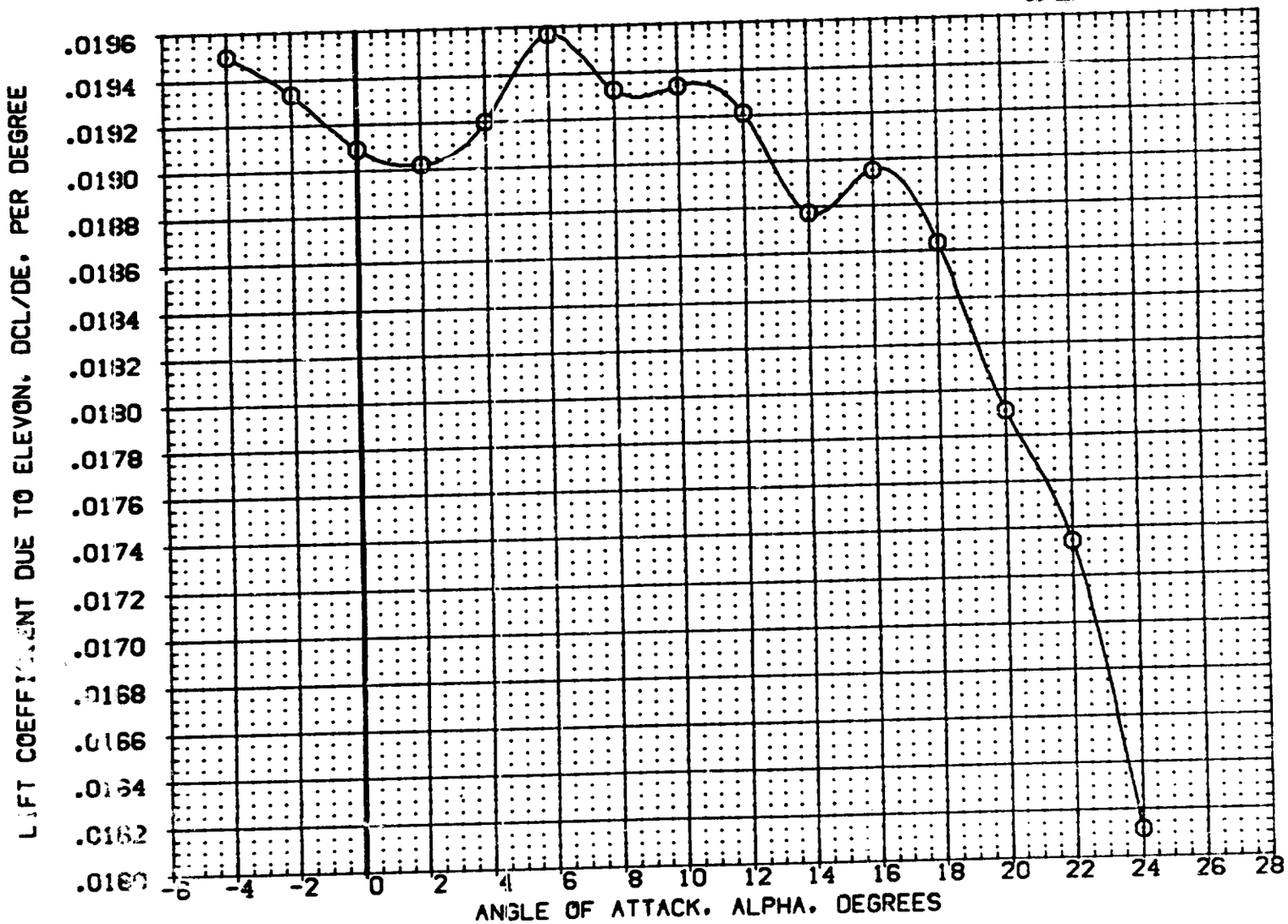


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(OOP173) O 0A21 B17C7 M4F5 V107E23V7R6 X9

MAXELE	DELELE	BOFLAP	SPDBRK
5.000	10.000	-18.000	.000

REFERENCE INFORMATION

SREF	4.4116	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

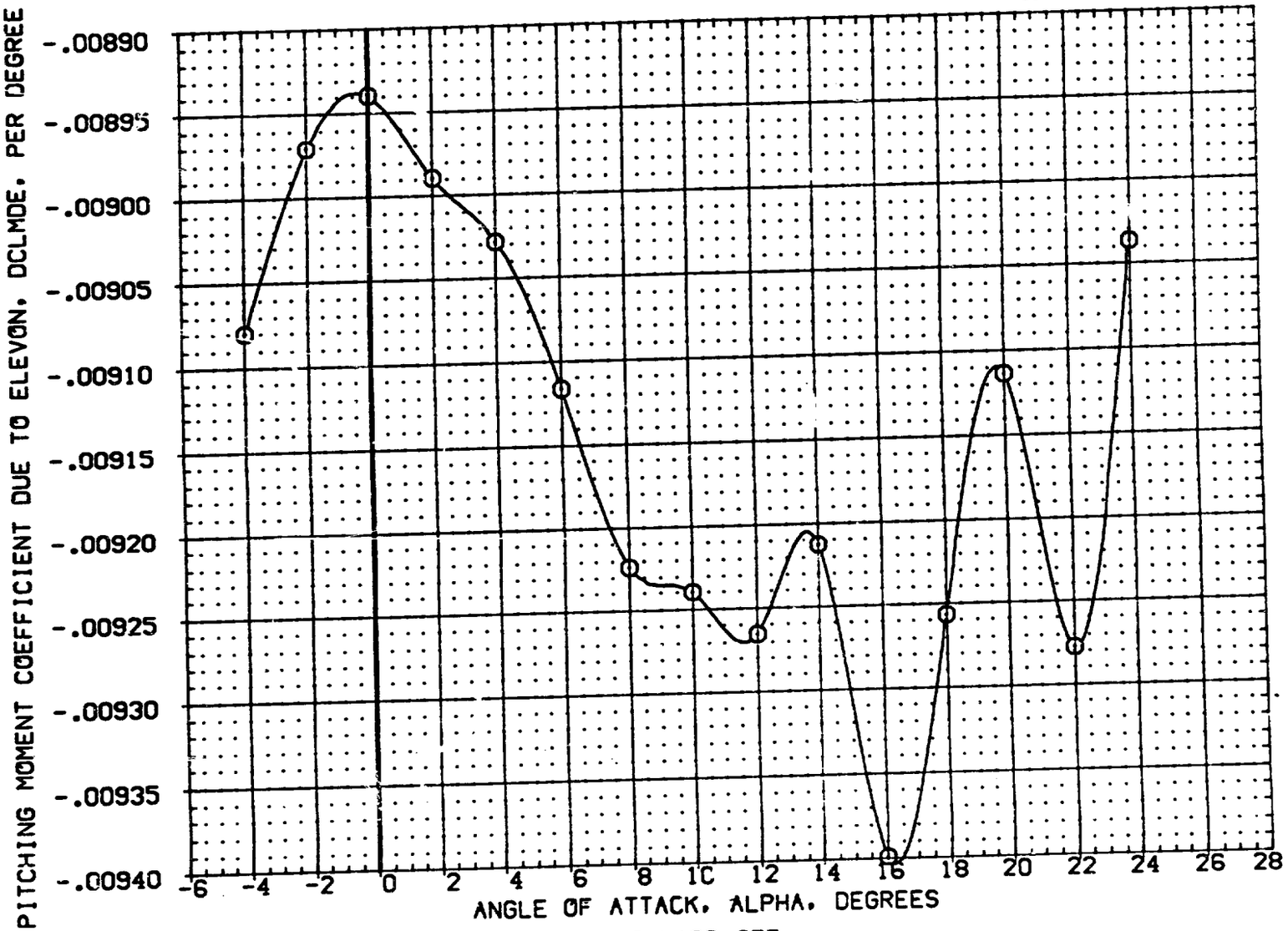


FIGURE 34 ELEVON EFFECTIVENESS WITH CANARD OFF

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP068)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP069)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP070)	⊠	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP071)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

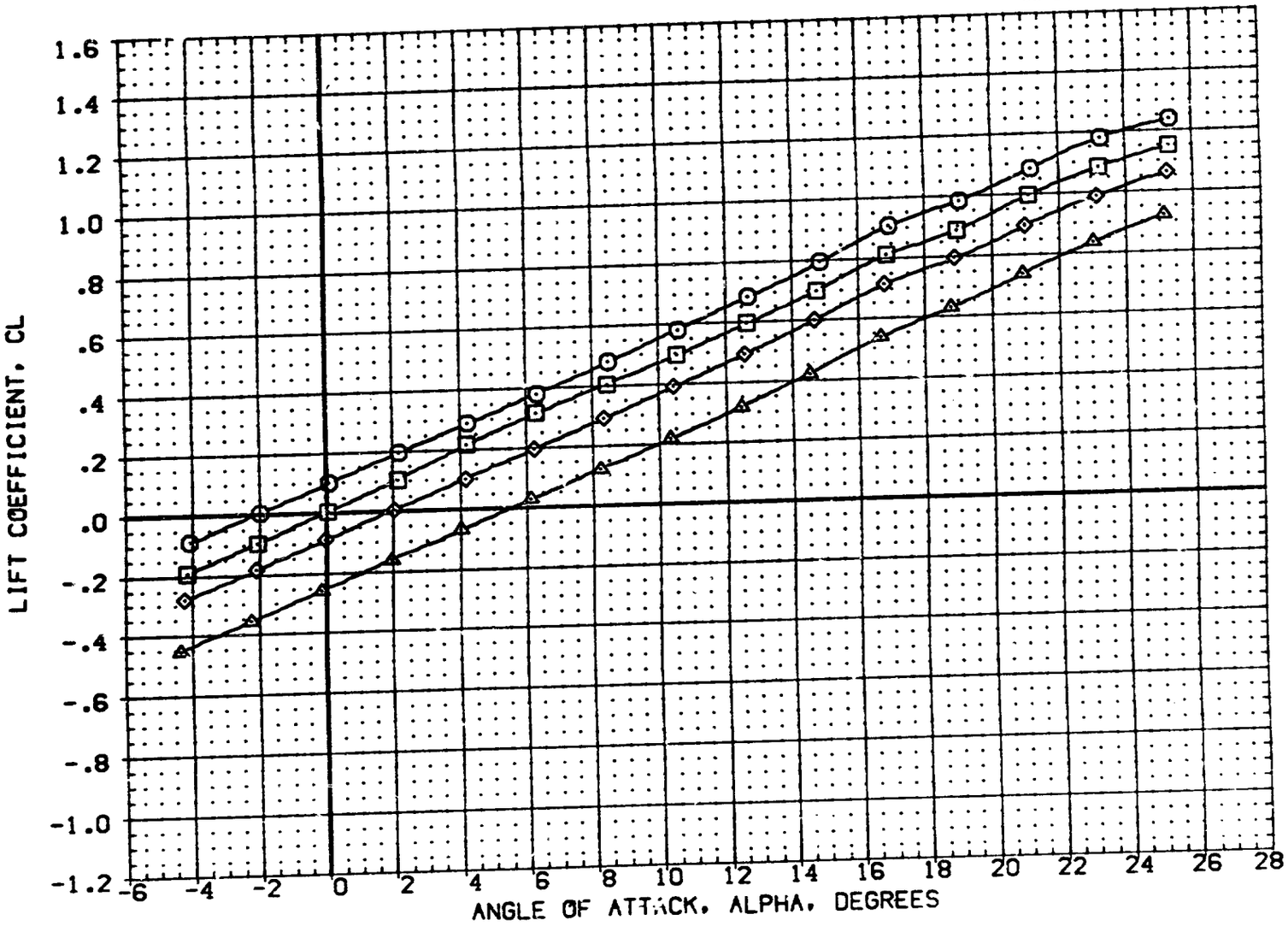


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

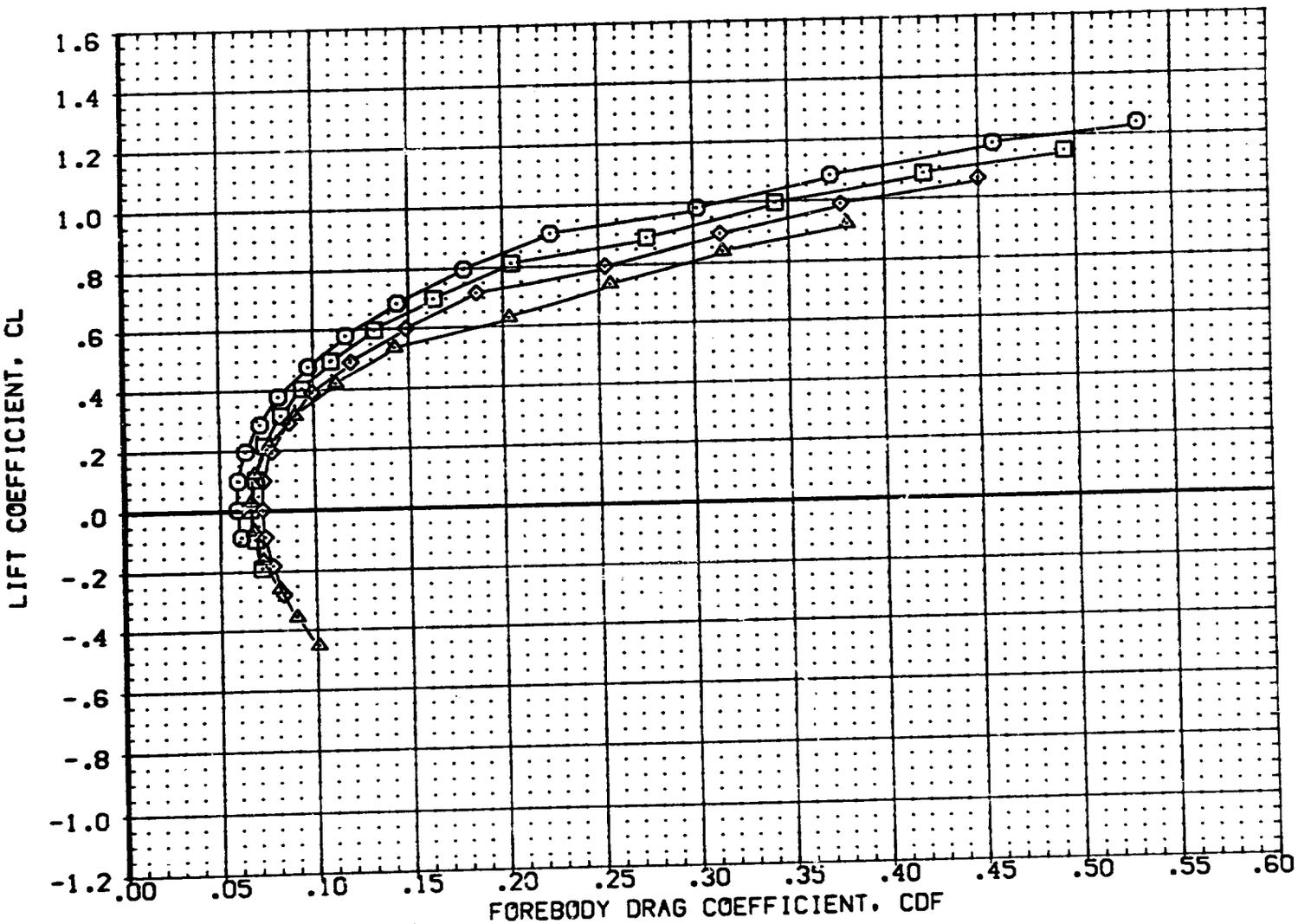


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

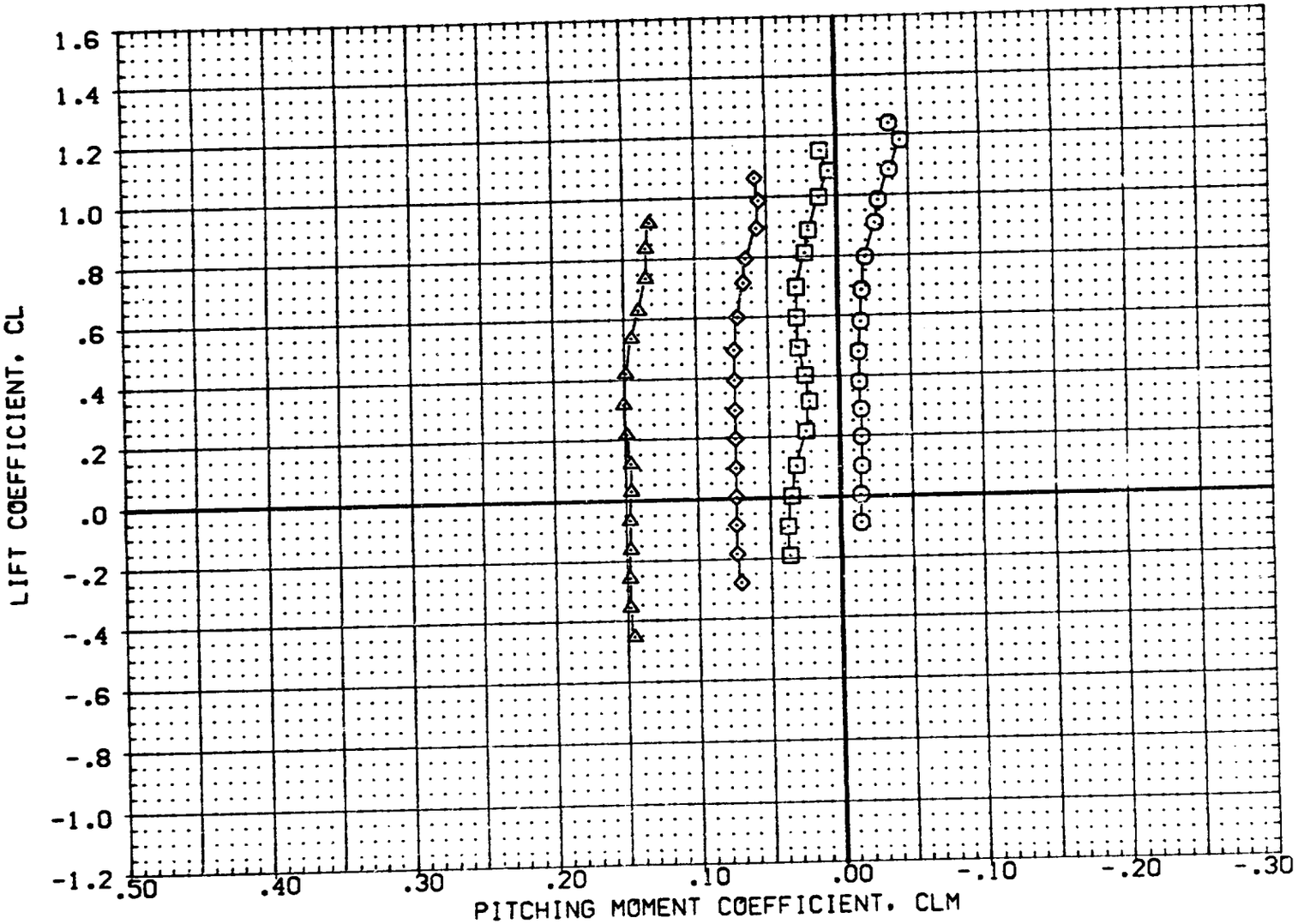


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP068)	○	CA21	B17C7	M4F5	W107E23V7R6X9
(IDPC69)	□	CA21	B17C7	M4F5	W107E23V7R6X9
(IDP070)	◇	CA21	B17C7	M4F5	W107E23V7R6X9
(IDP071)	△	CA21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

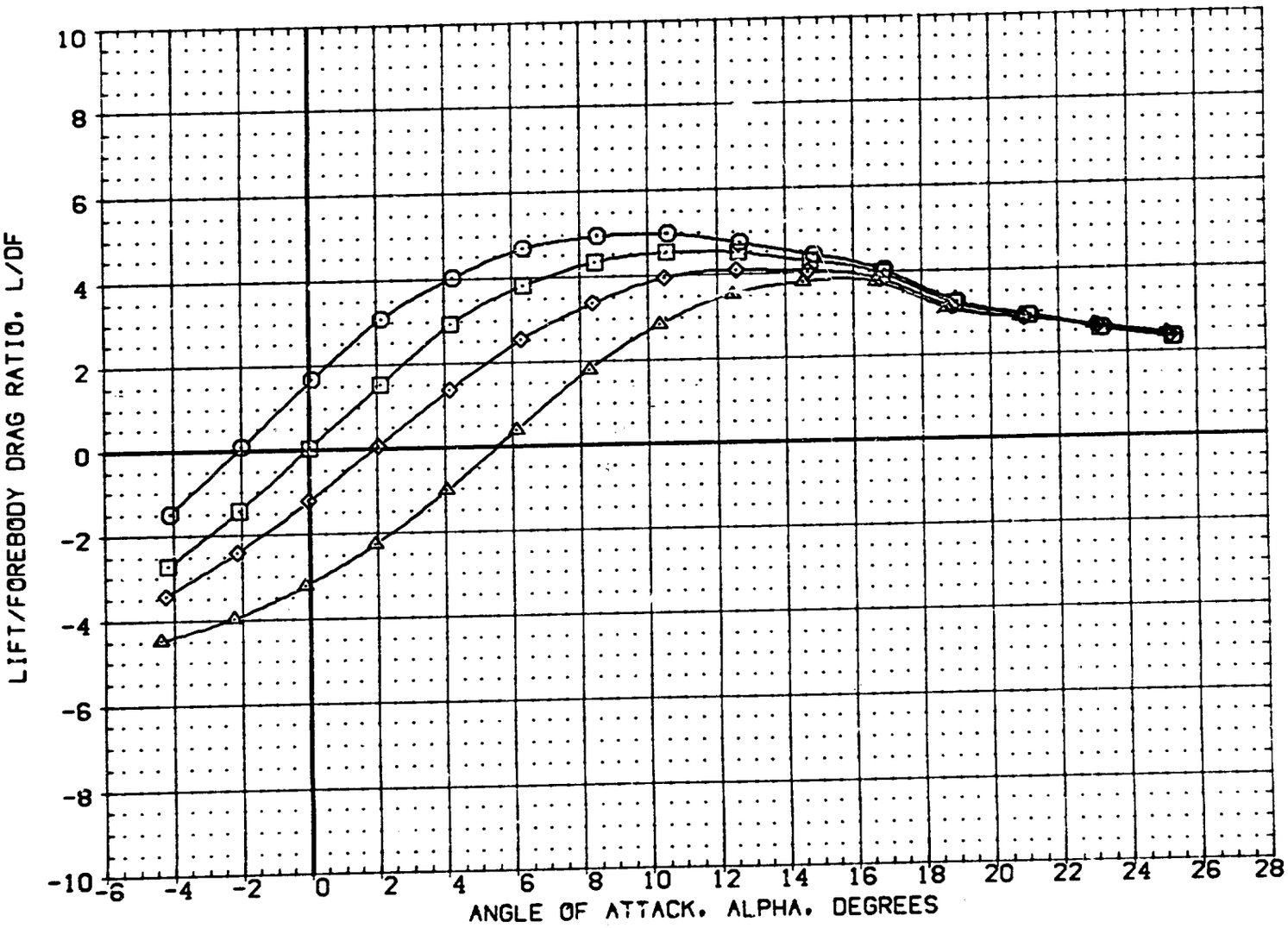


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP068)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP069)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP070)	◇	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP071)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	EDFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

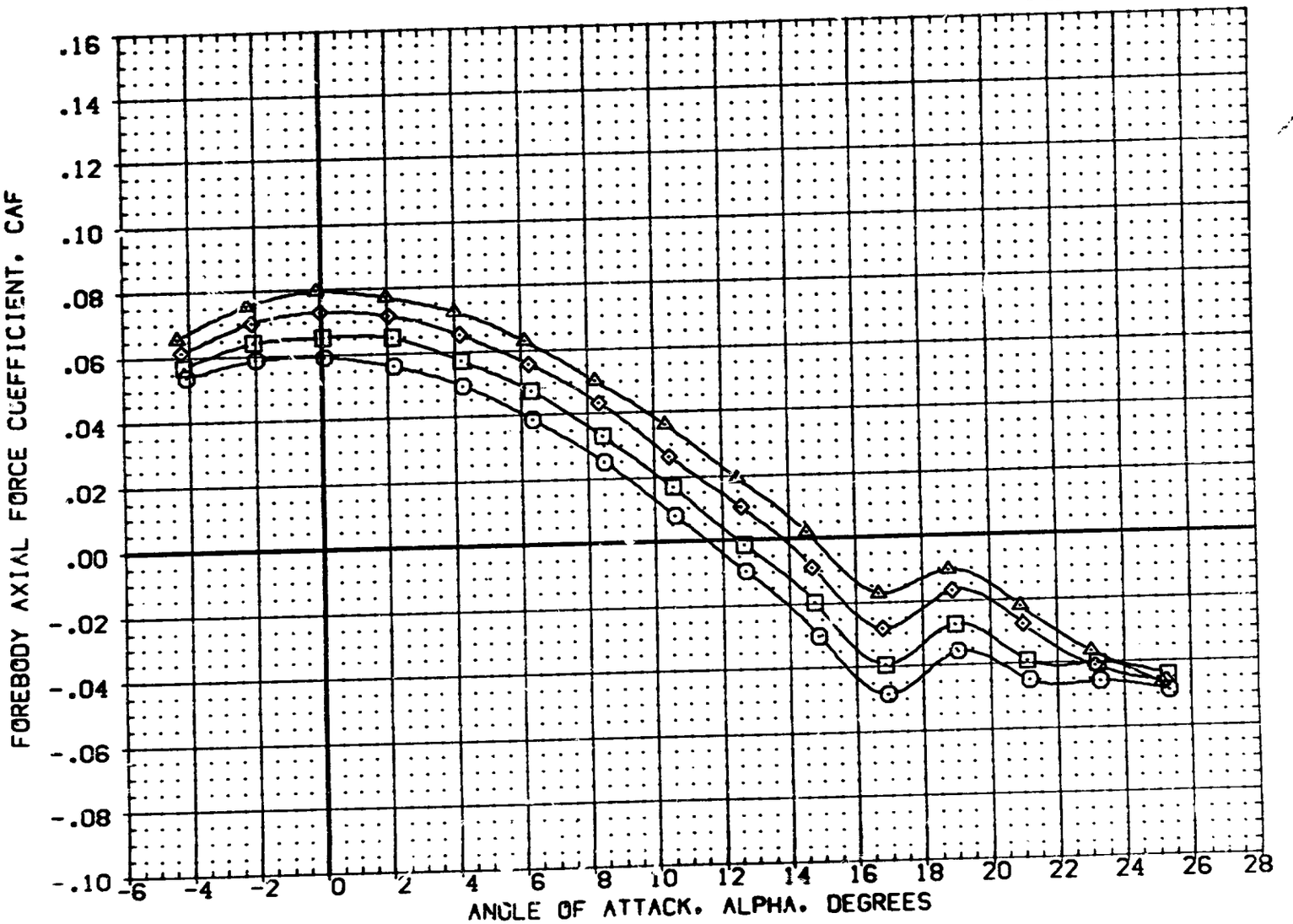


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(10P069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(10P070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(10P071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

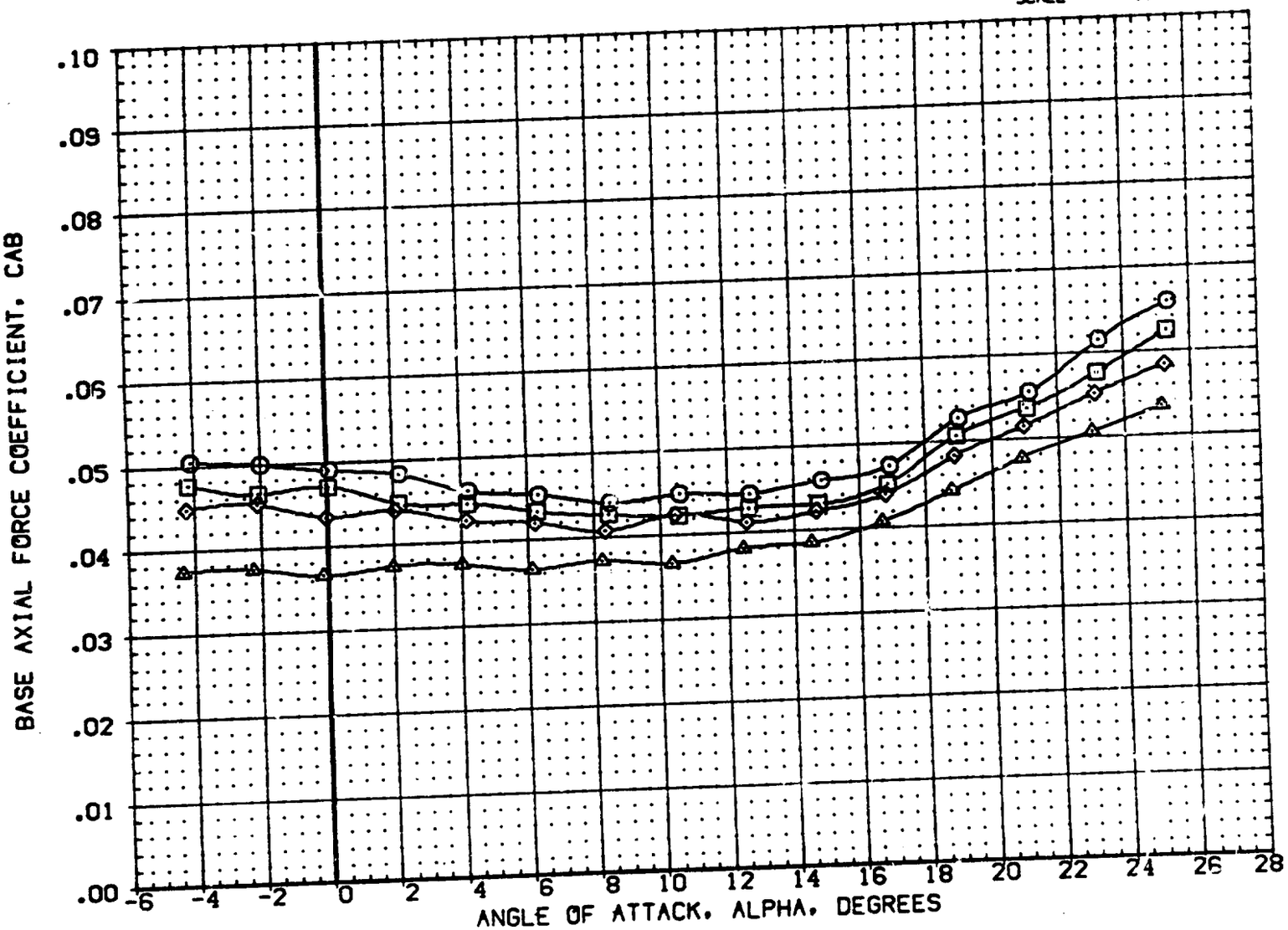


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP068)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP069)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP070)	◇	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP071)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5874	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

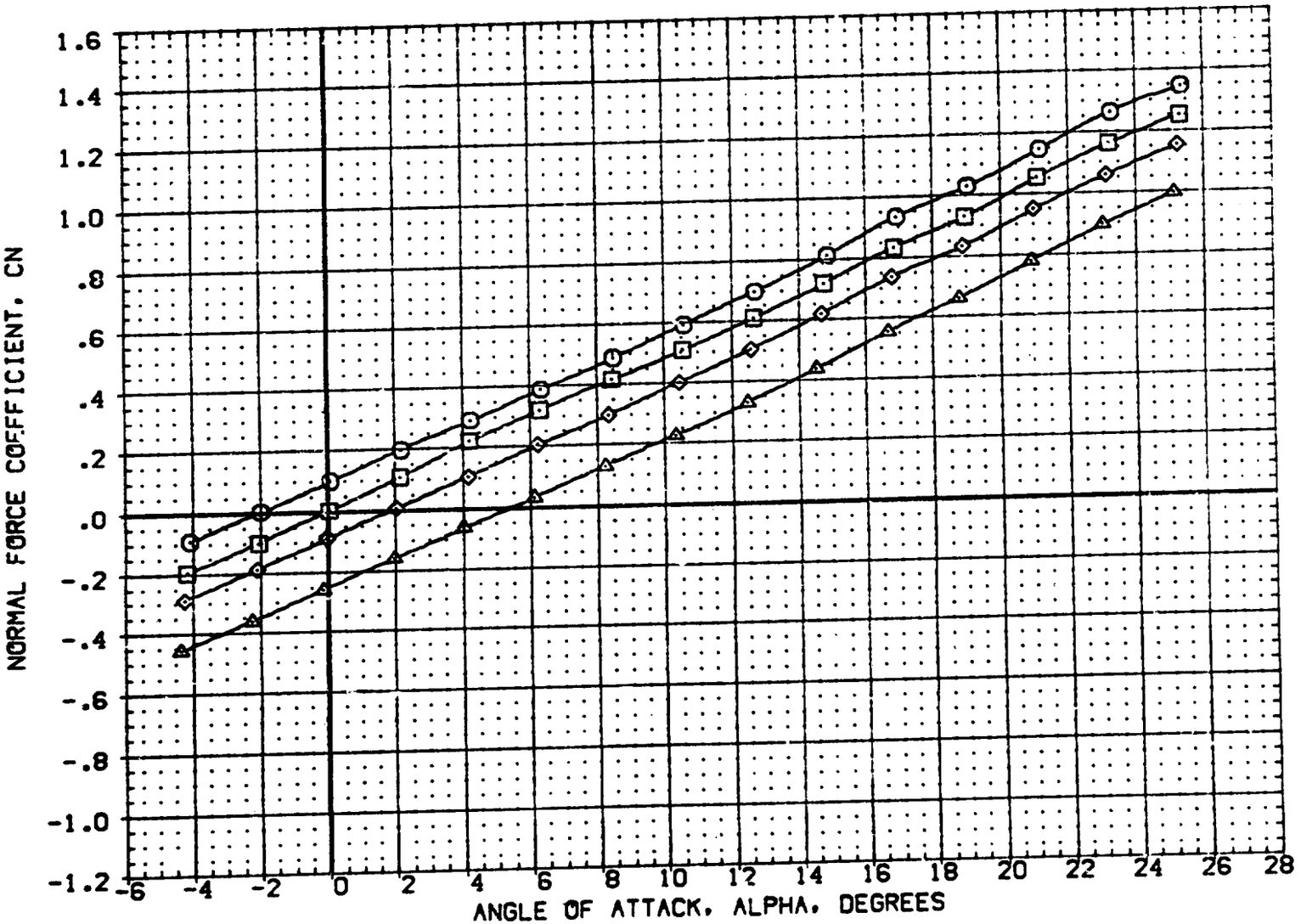


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

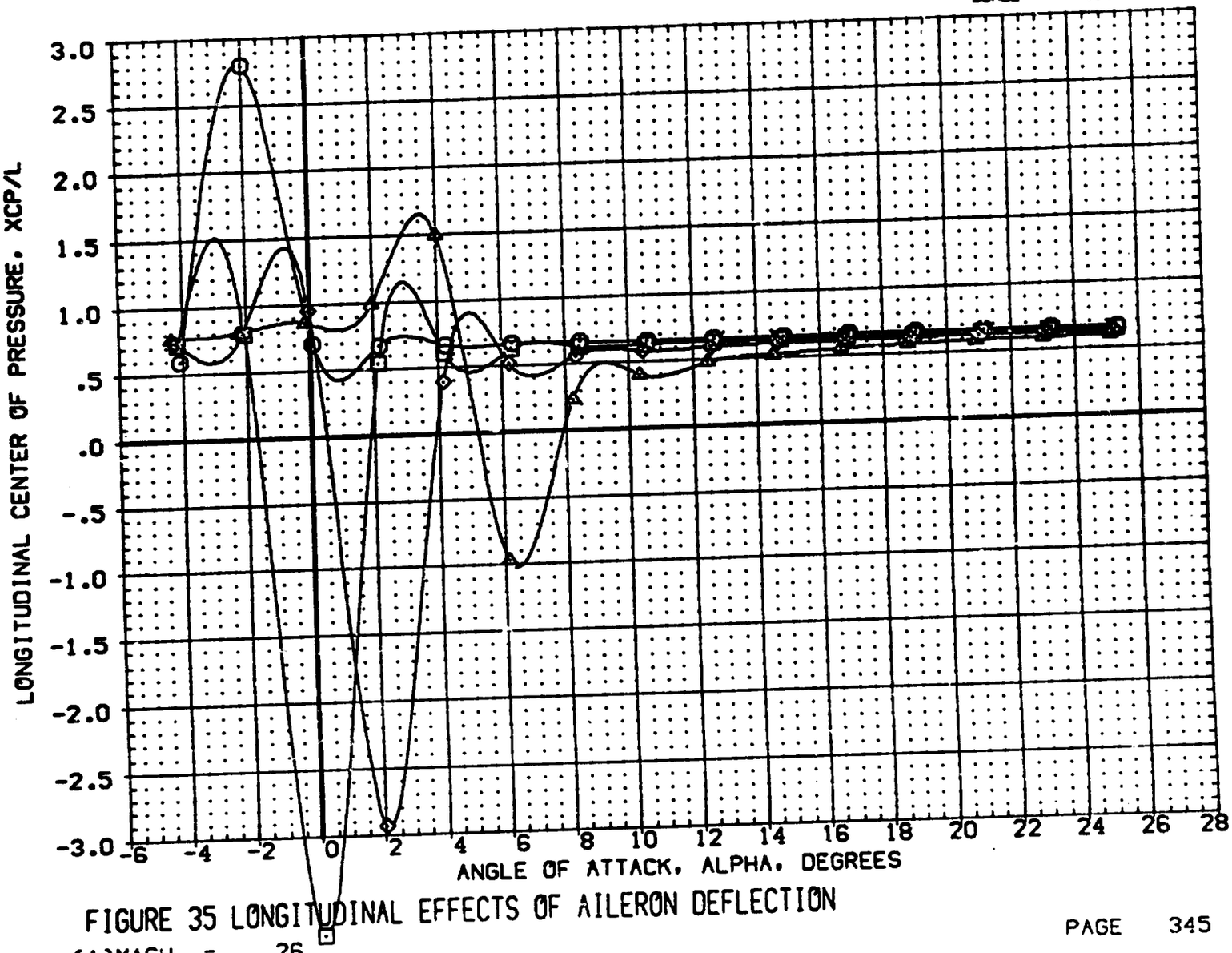


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP068)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP069)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP070)	◇	0A21	B17C7	M4F5	V107E23V7R6X9
(1DP071)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

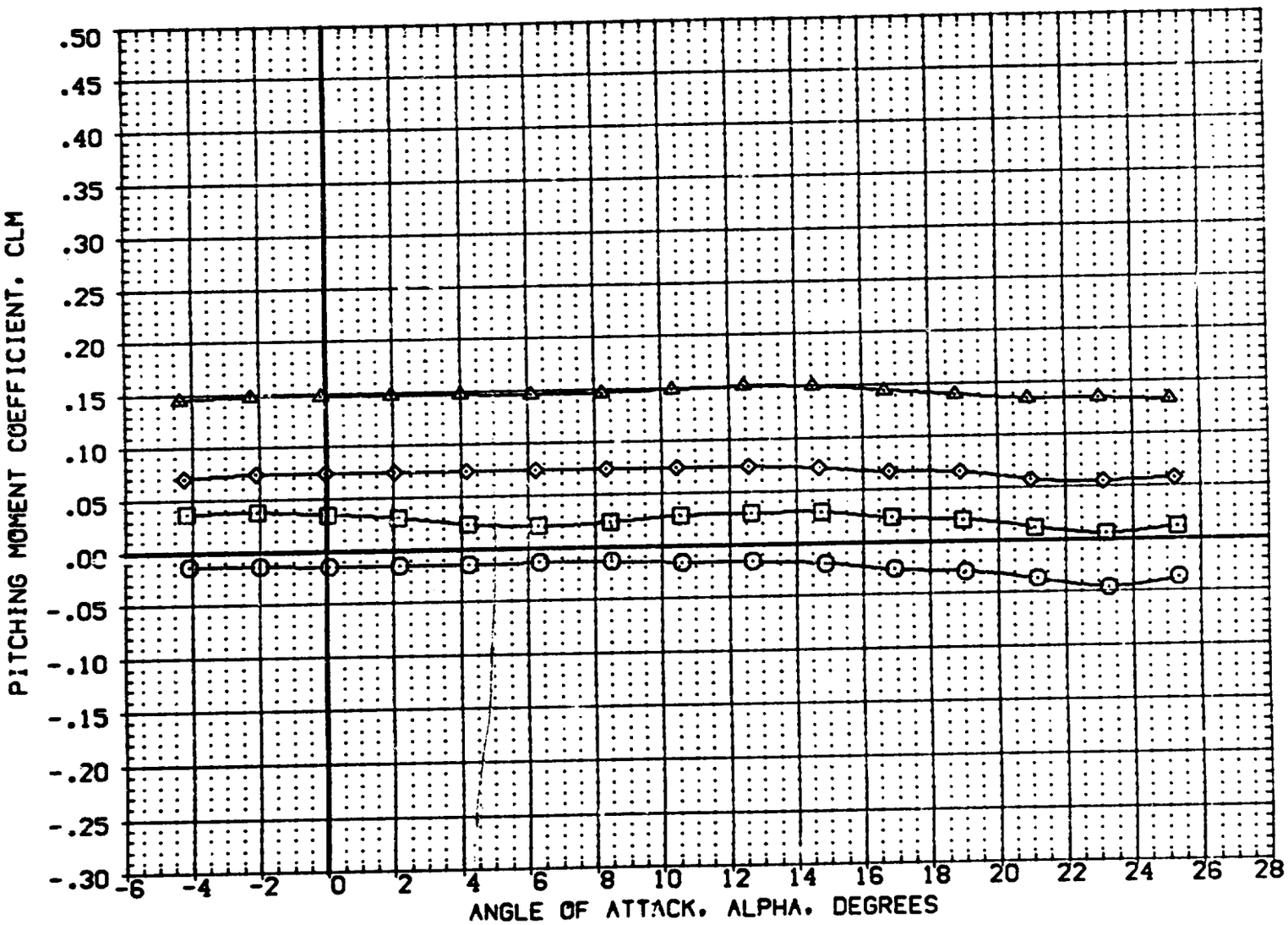


FIGURE 35 LONGITUDINAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

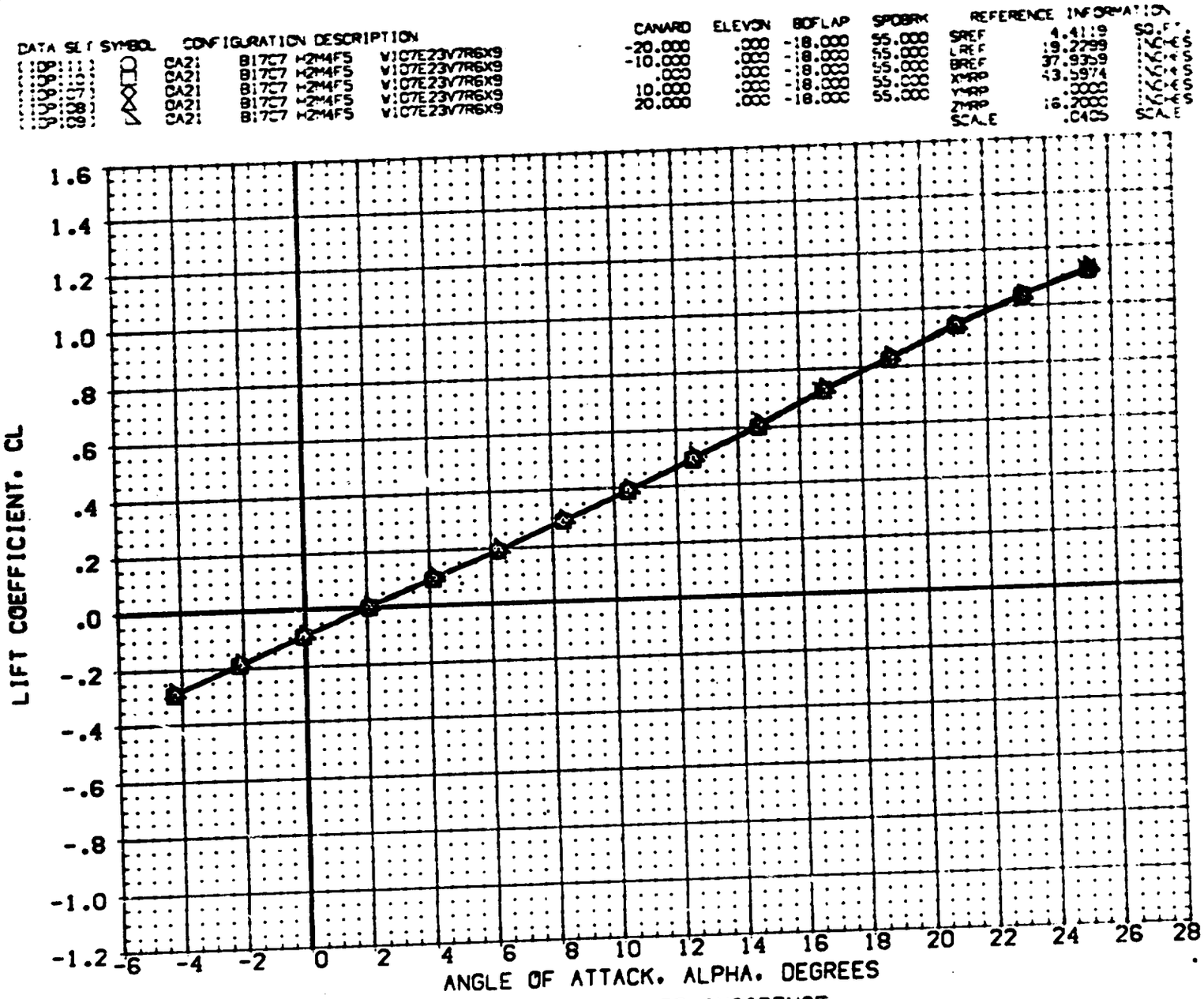


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IOP111)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IOP110)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IOP107)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IOP108)	⋈	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IOP109)	△	0A21	B17C7 H2M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

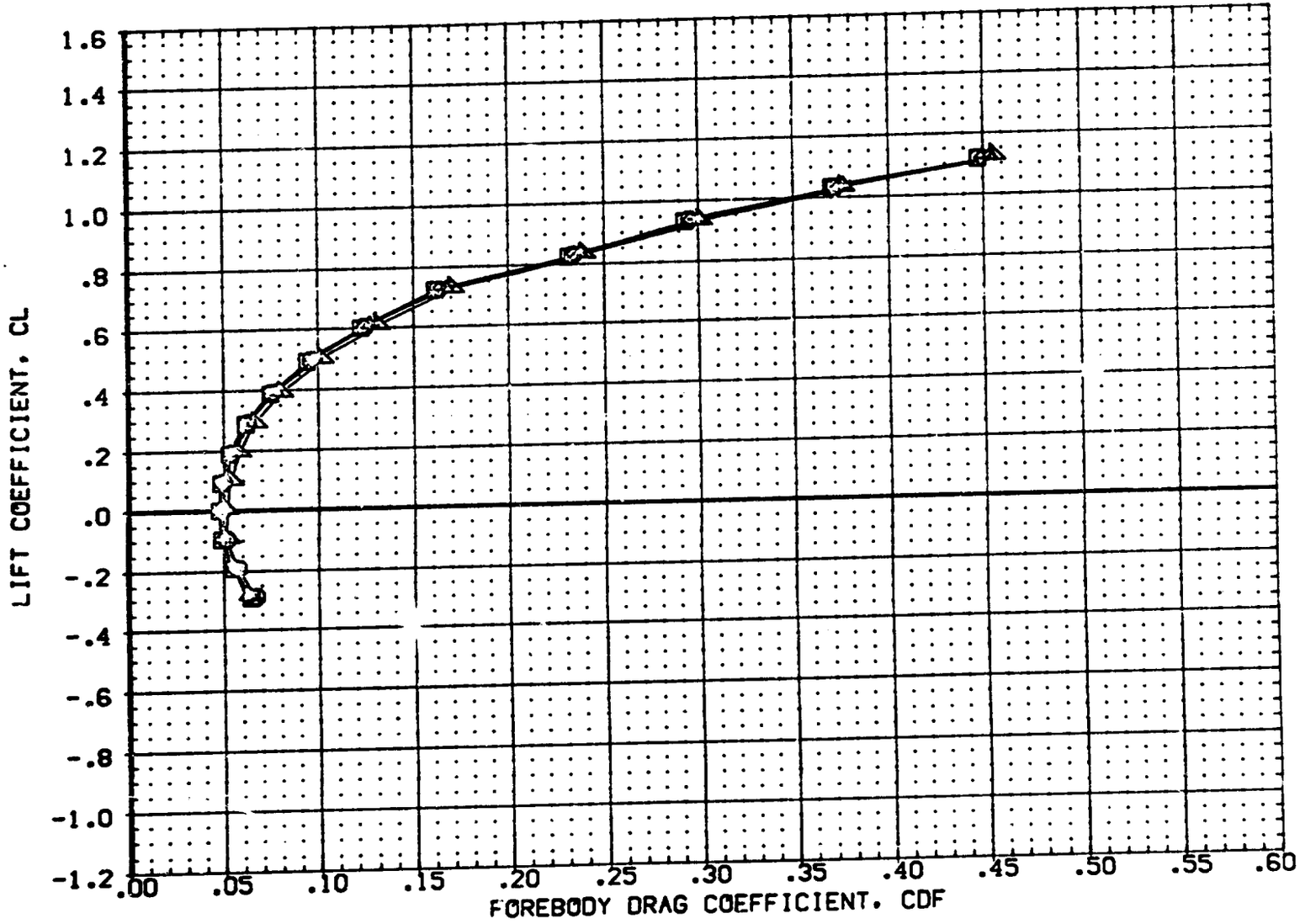


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP111)	□	0A21	B17C7 H2M4F5	V10/E23V7R6X9	
(IDP110)	□	0A21	B17C7 H2M4F5	V10/E23V7R6X9	
(IDP107)	◇	0A21	B17C7 H2M4F5	V10/E23V7R6X9	
(IDP108)	△	0A21	B17C7 H2M4F5	V10/E23V7R6X9	
(IDP109)	▽	0A21	B17C7 H2M4F5	V10/E23V7R6X9	

CANARD	ELEVON	BDFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2259	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

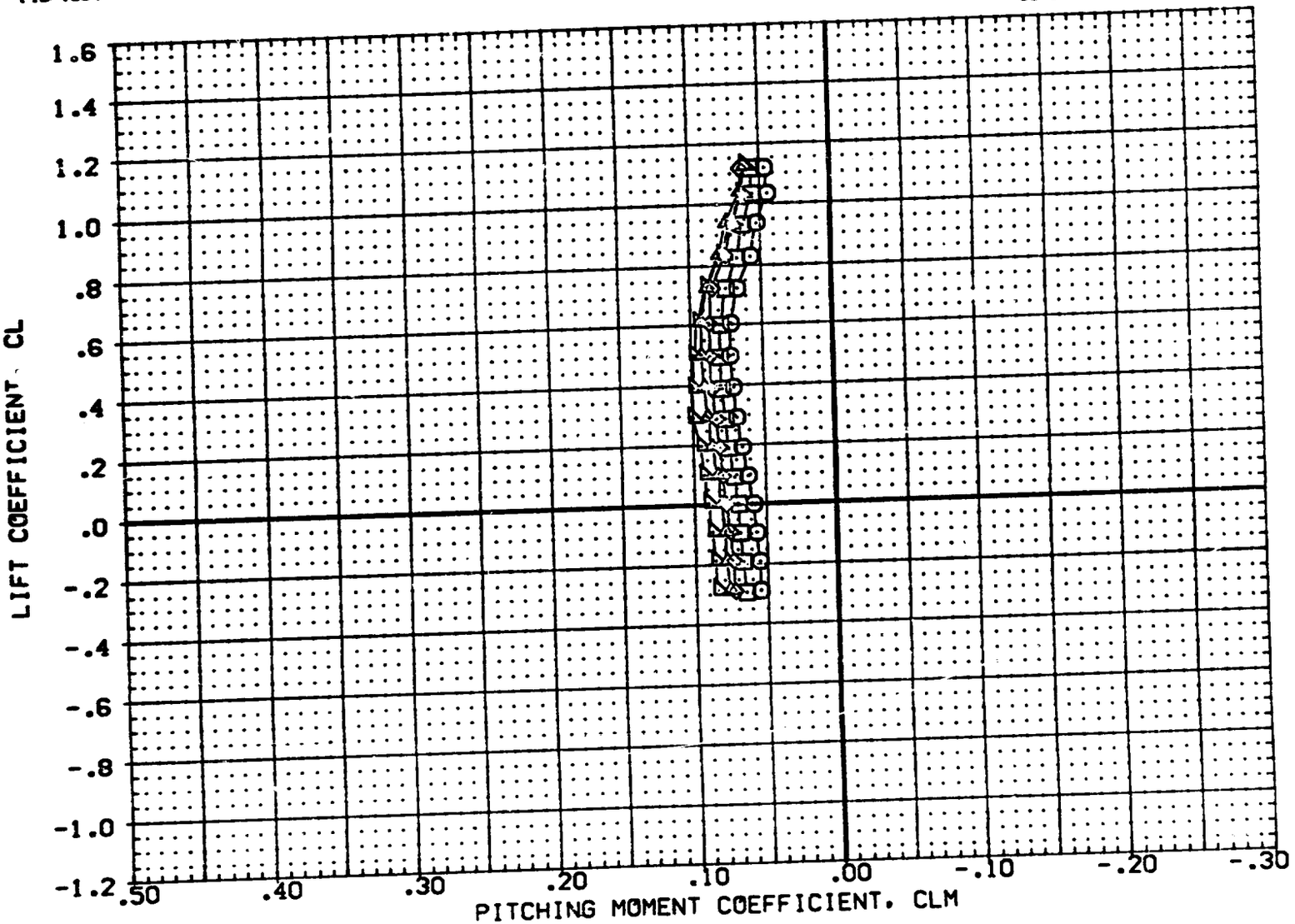


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP111)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP110)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP107)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP108)	△	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP109)	▽	0A21	B17C7 H2M4F5	V107E23V7R6X9	

CANARD	ELEVON	BDFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

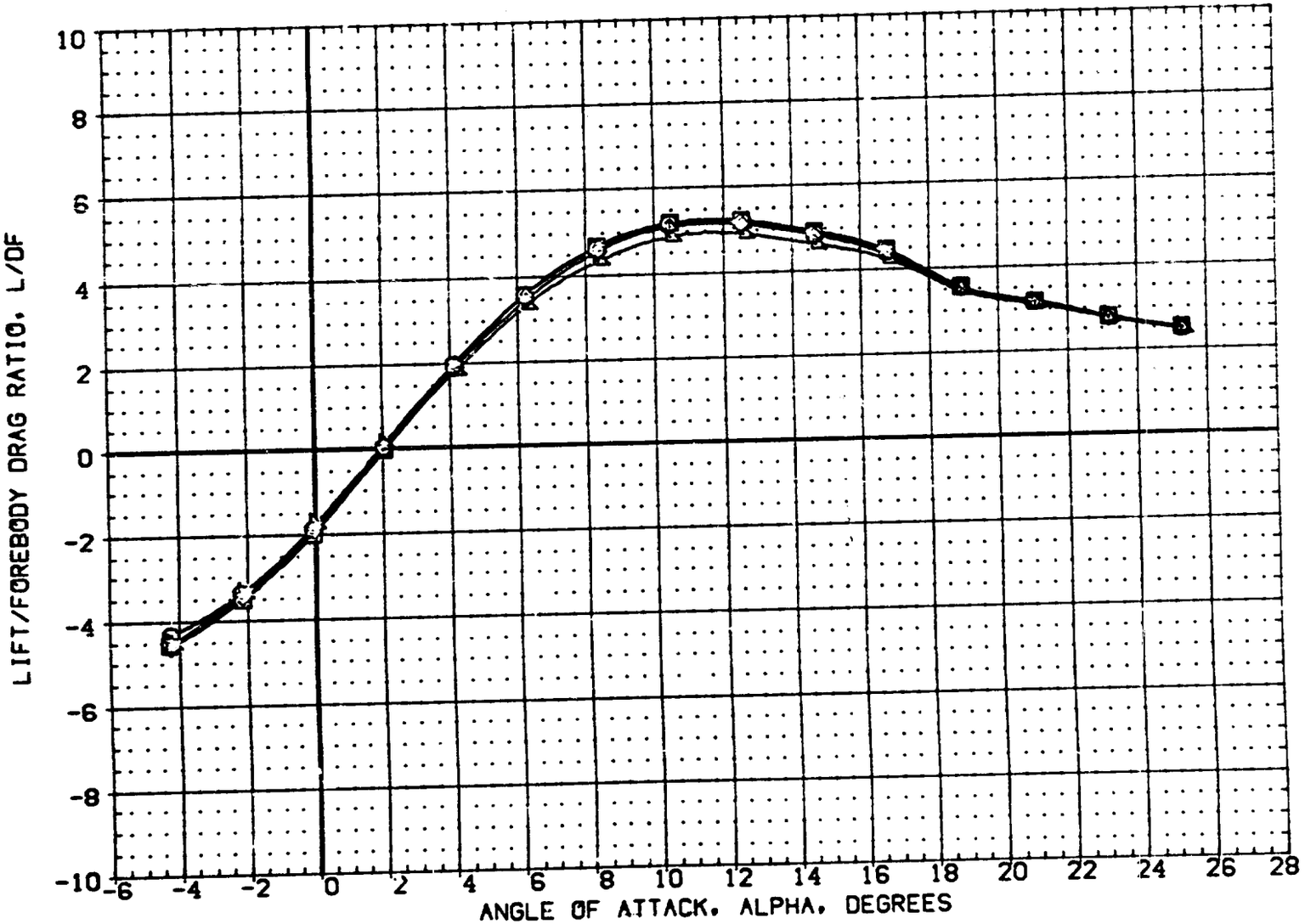


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP111)	○	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP110)	□	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP107)	◇	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP108)	△	0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP109)	▽	0A21	B17C7 H2M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

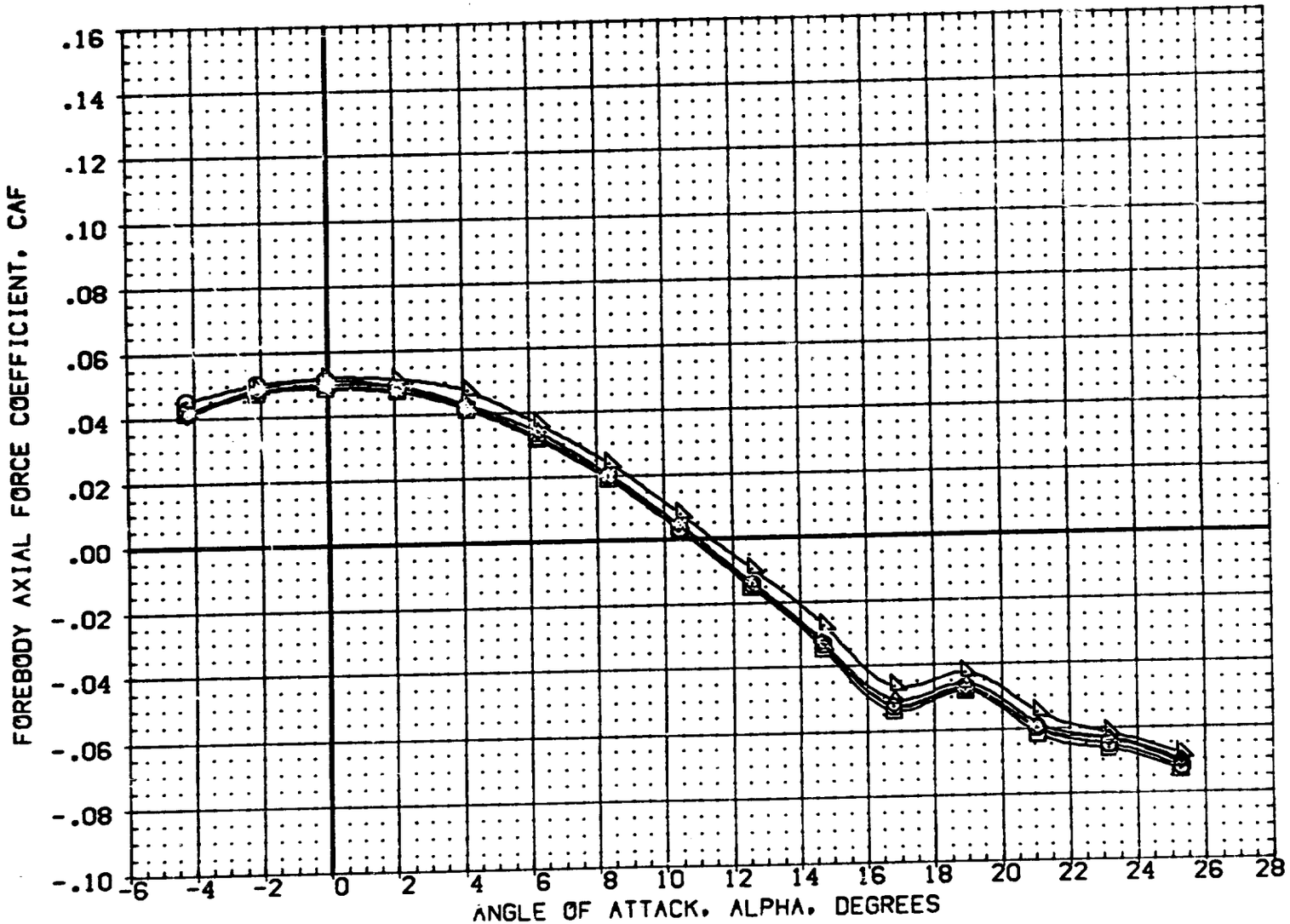


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BOFLAP	SPDBRK
(IDP111)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	-20.000	.000	-18.000	55.000
(IDP110)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	-10.000	.000	-18.000	55.000
(IDP107)	⊠	0A21	B17C7 H2M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(IDP108)	△	0A21	B17C7 H2M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000
(IDP109)	▽	0A21	B17C7 H2M4F5	W107E23V7R6X9	20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

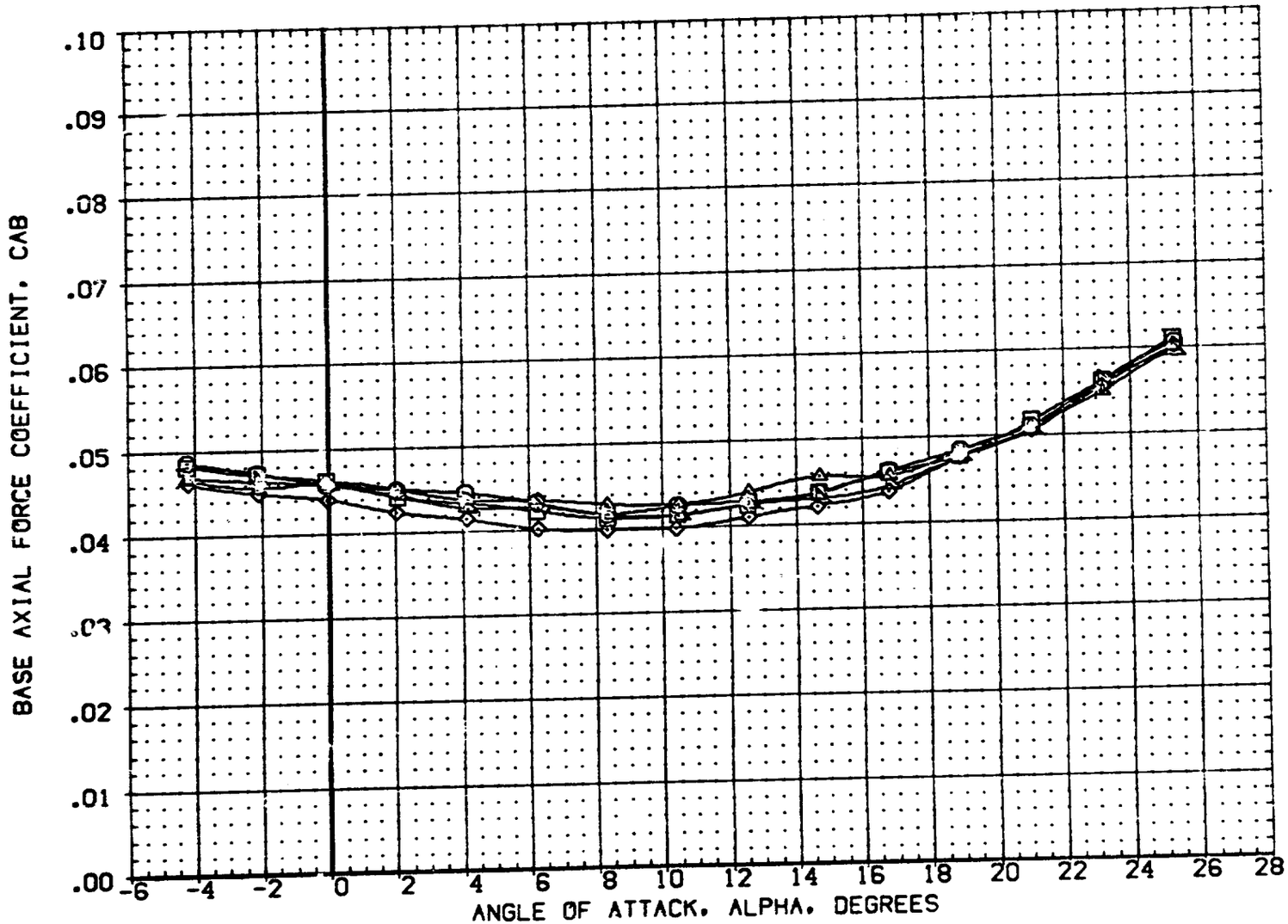


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP111)		0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP110)		0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP107)		0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP108)		0A21	B17C7 H2M4F5	V107E23V7R6X9	
(IDP109)		0A21	B17C7 H2M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

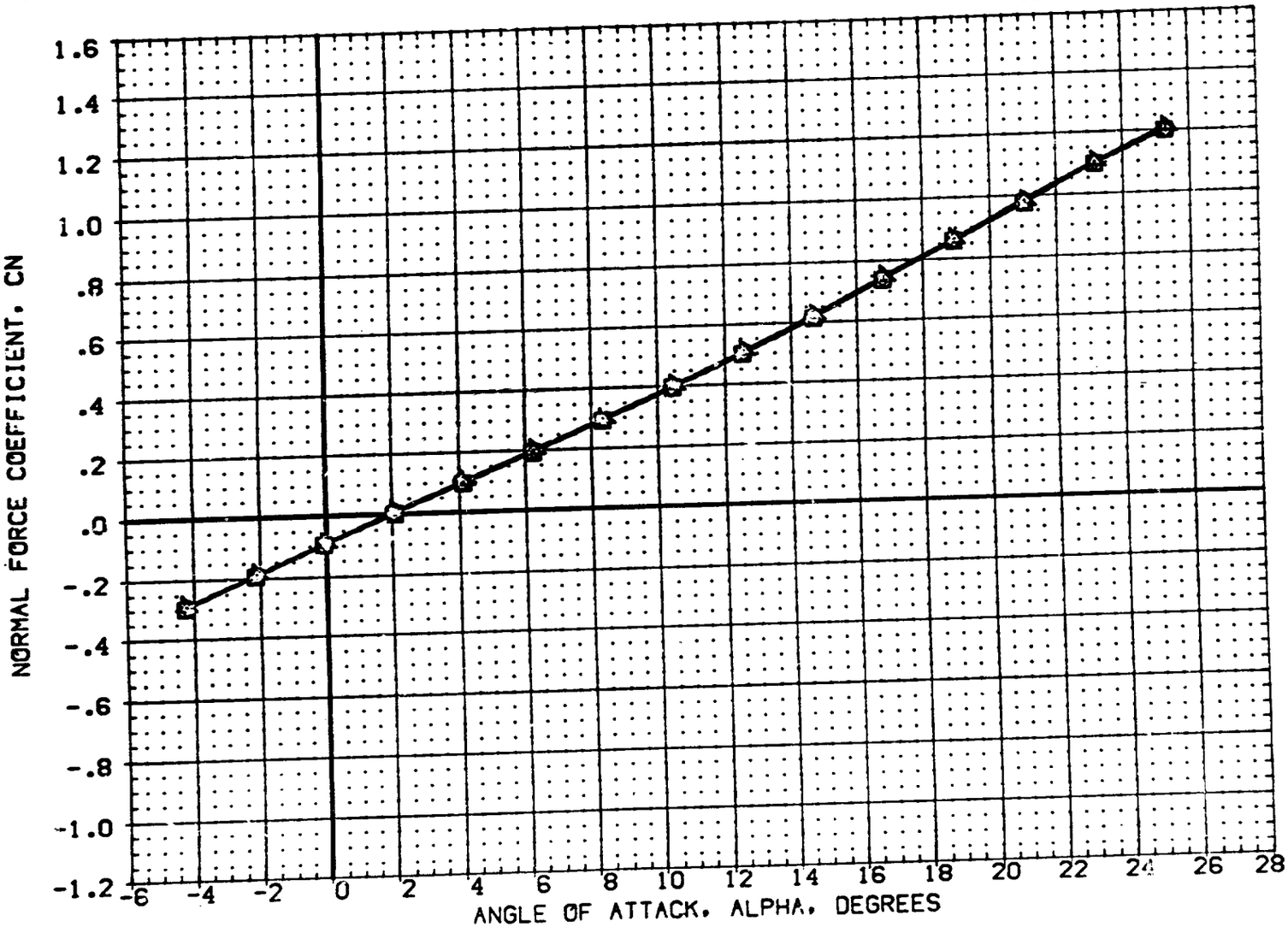


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

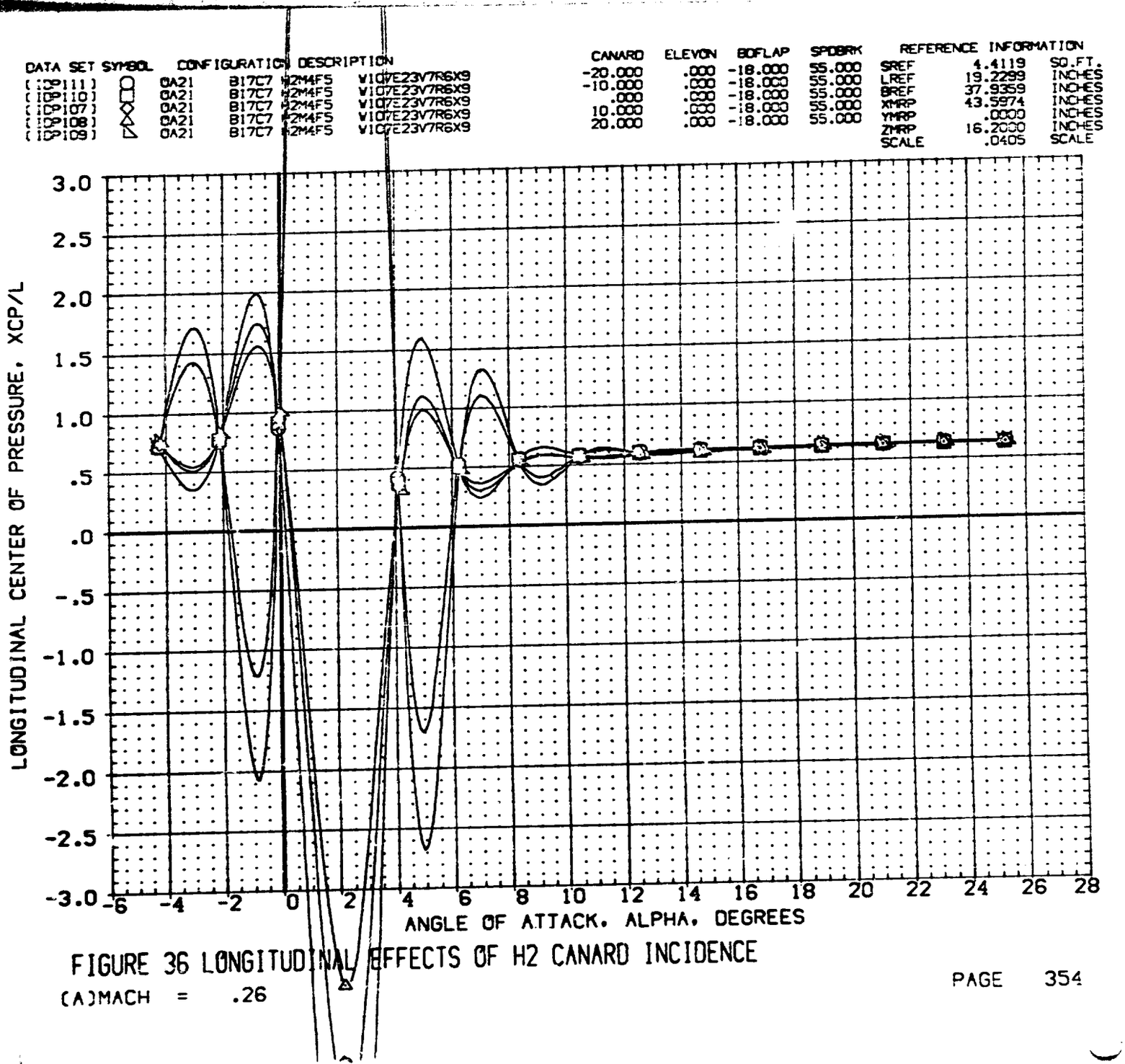


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP111)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP110)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP107)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP108)	△	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(1DP109)	▷	0A21	B17C7 H2M4F5	W107E23V7R6X9	

CANARD	ELEVON	BUFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

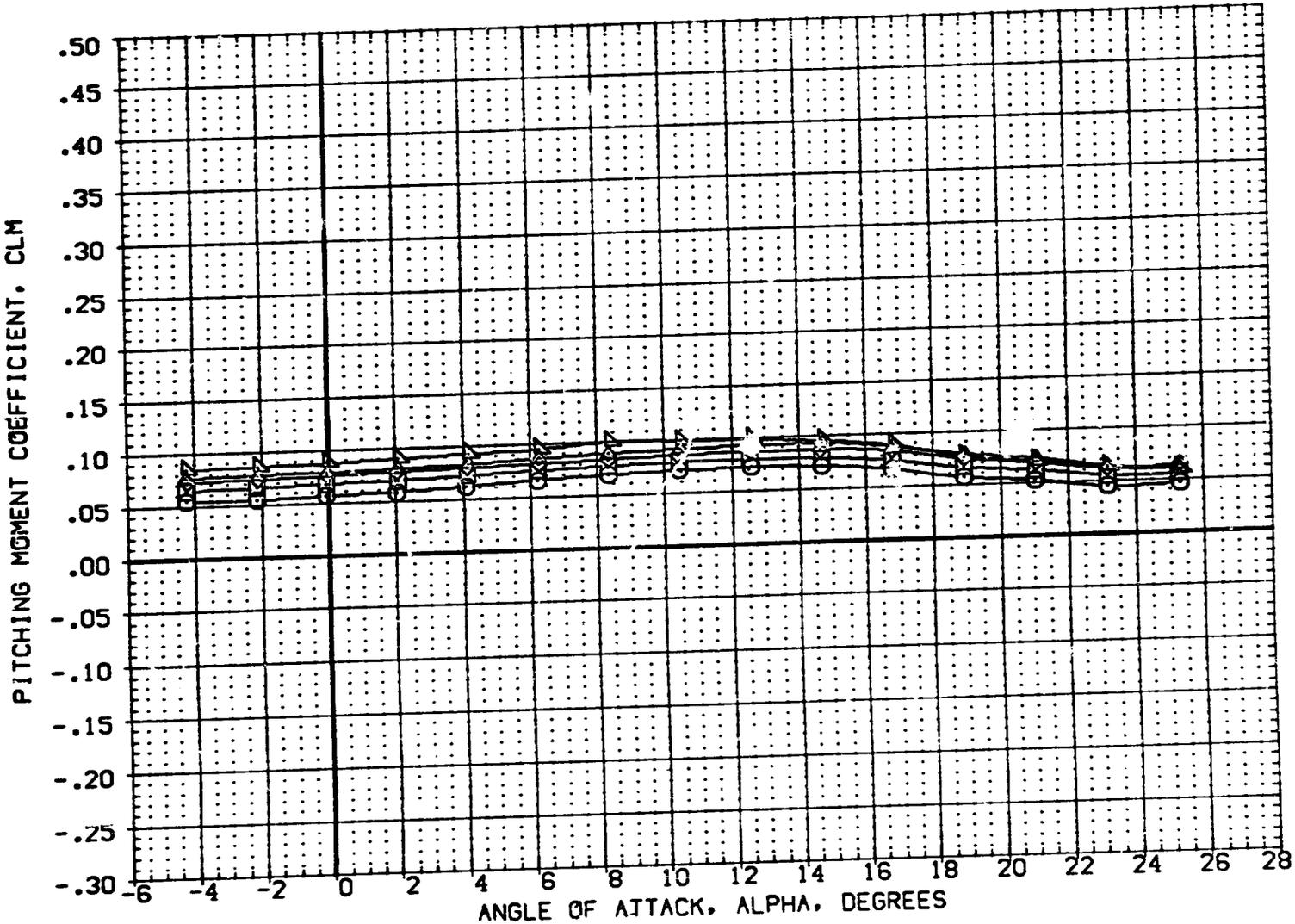


FIGURE 36 LONGITUDINAL EFFECTS OF H2 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP116)	□	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP115)	○	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP112)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP113)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP114)	▽	0A21	B17C7 H3M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

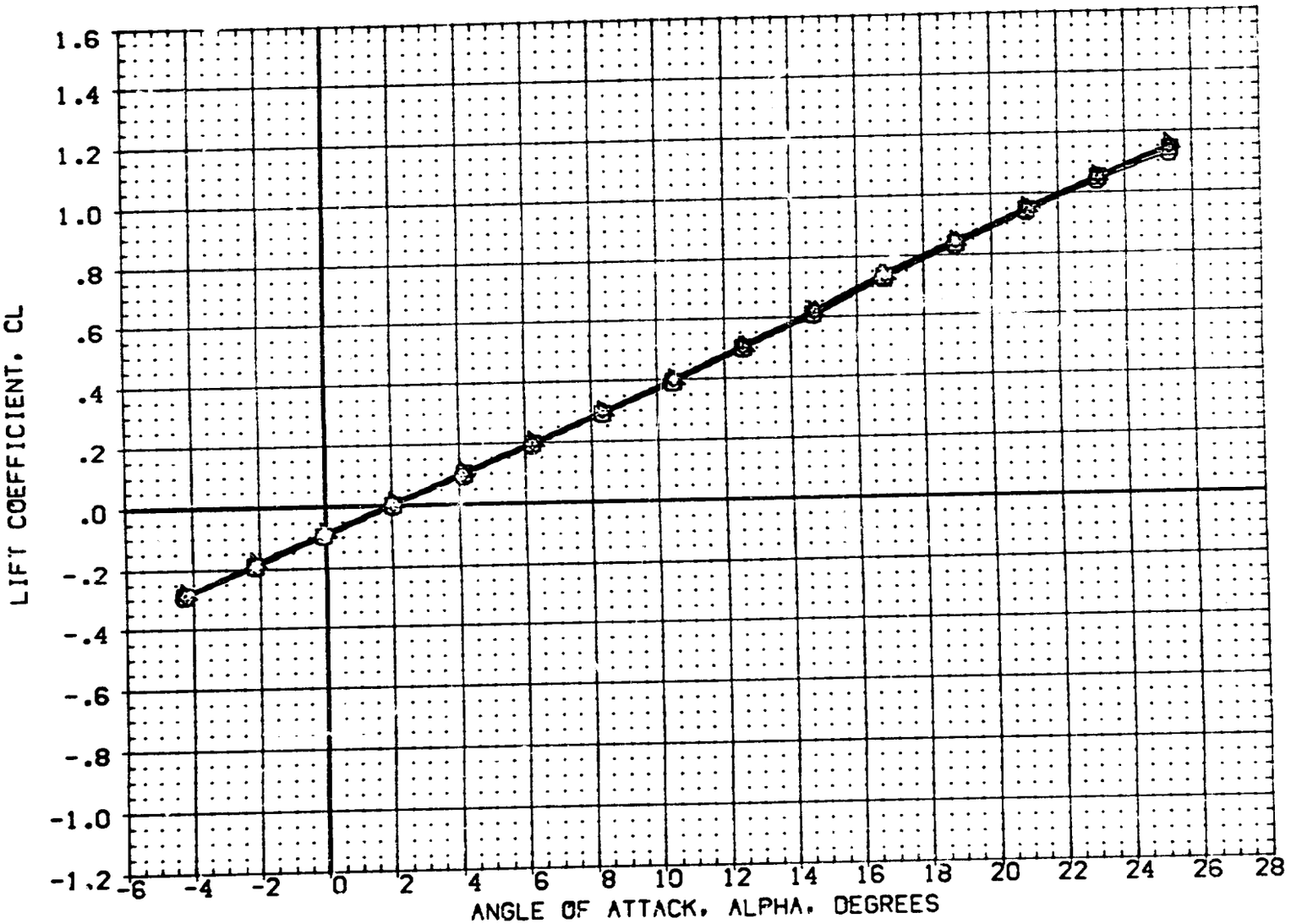


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(109116)	□	0A21	B17C7	H3M4F5	V107E23V7R6X9
(109115)	▽	0A21	B17C7	H3M4F5	V107E23V7R6X9
(109112)	◇	0A21	B17C7	H3M4F5	V107E23V7R6X9
(109113)	⋈	0A21	B17C7	H3M4F5	V107E23V7R6X9
(109114)	△	0A21	B17C7	H3M4F5	V107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

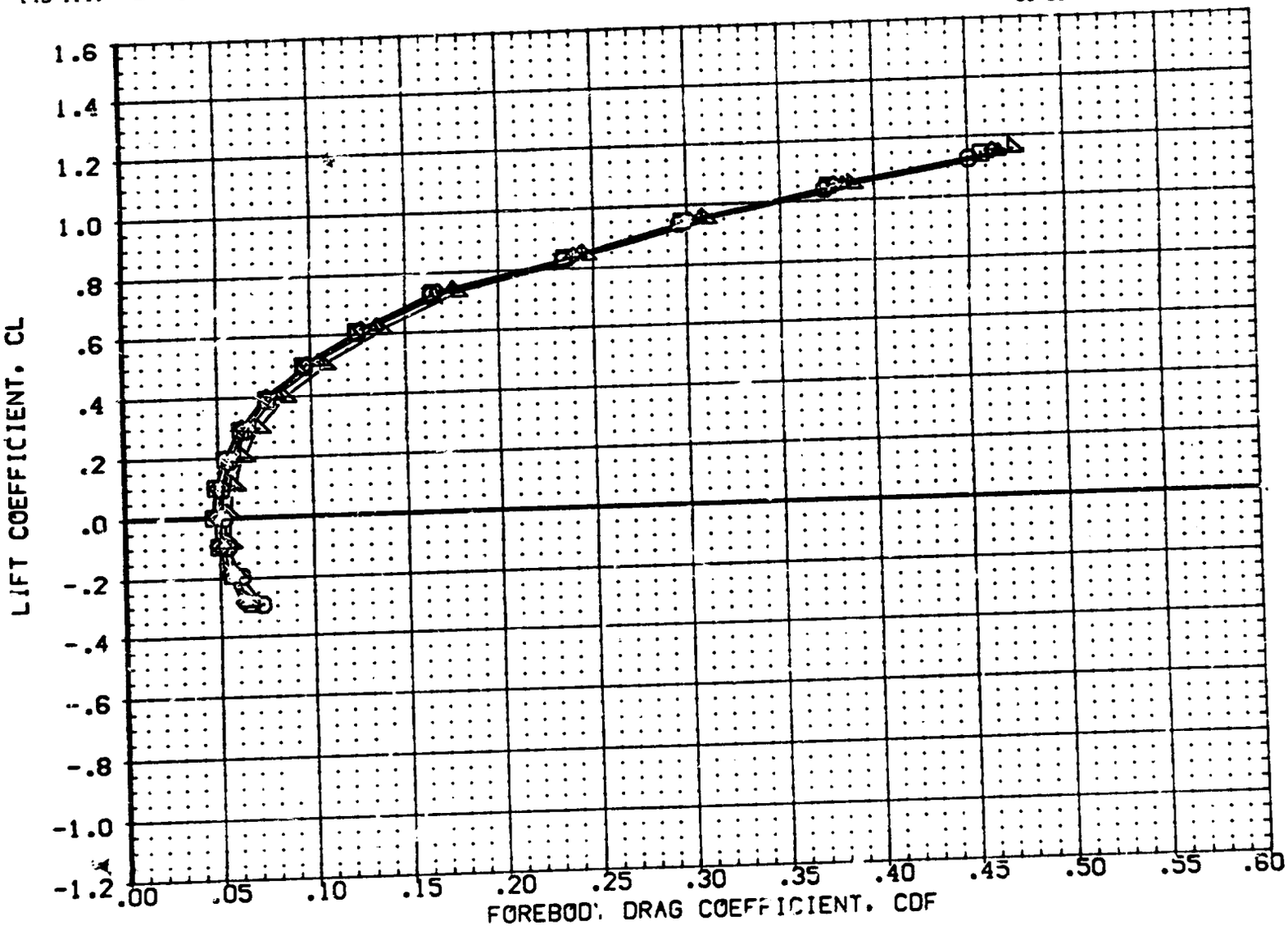


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP116)	○	0A21	B17C7 H3M4F5	V107E23V7R6X9	
(IDP115)	□	0A21	B17C7 H3M4F5	V107E23V7R6X9	
(IDP112)	◇	0A21	B17C7 H3M4F5	V107E23V7R6X9	
(IDP113)	△	0A21	B17C7 H3M4F5	V107E23V7R6X9	
(IDP114)	▽	0A21	B17C7 H3M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

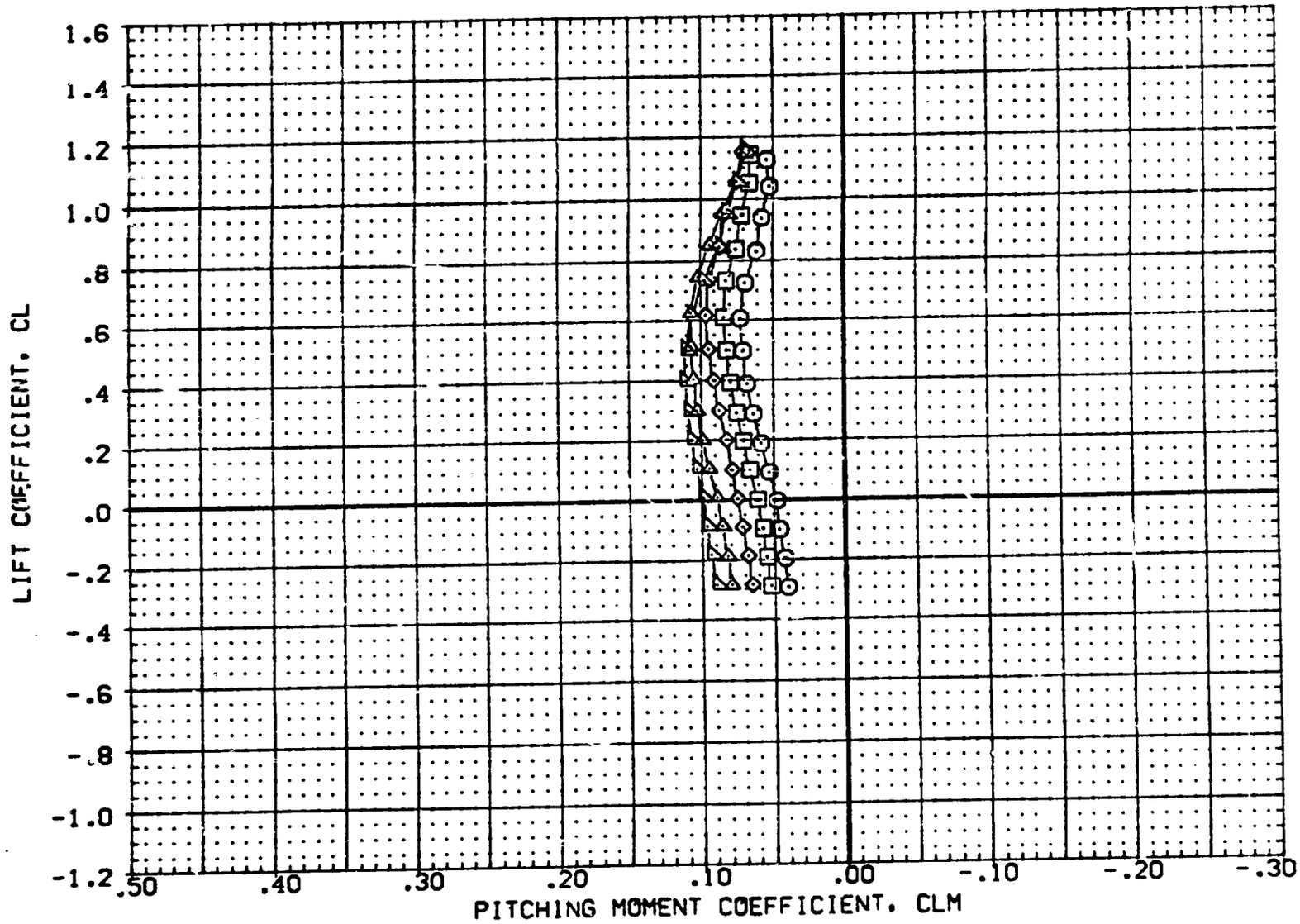


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP116)	□	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP115)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP112)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP113)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP114)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

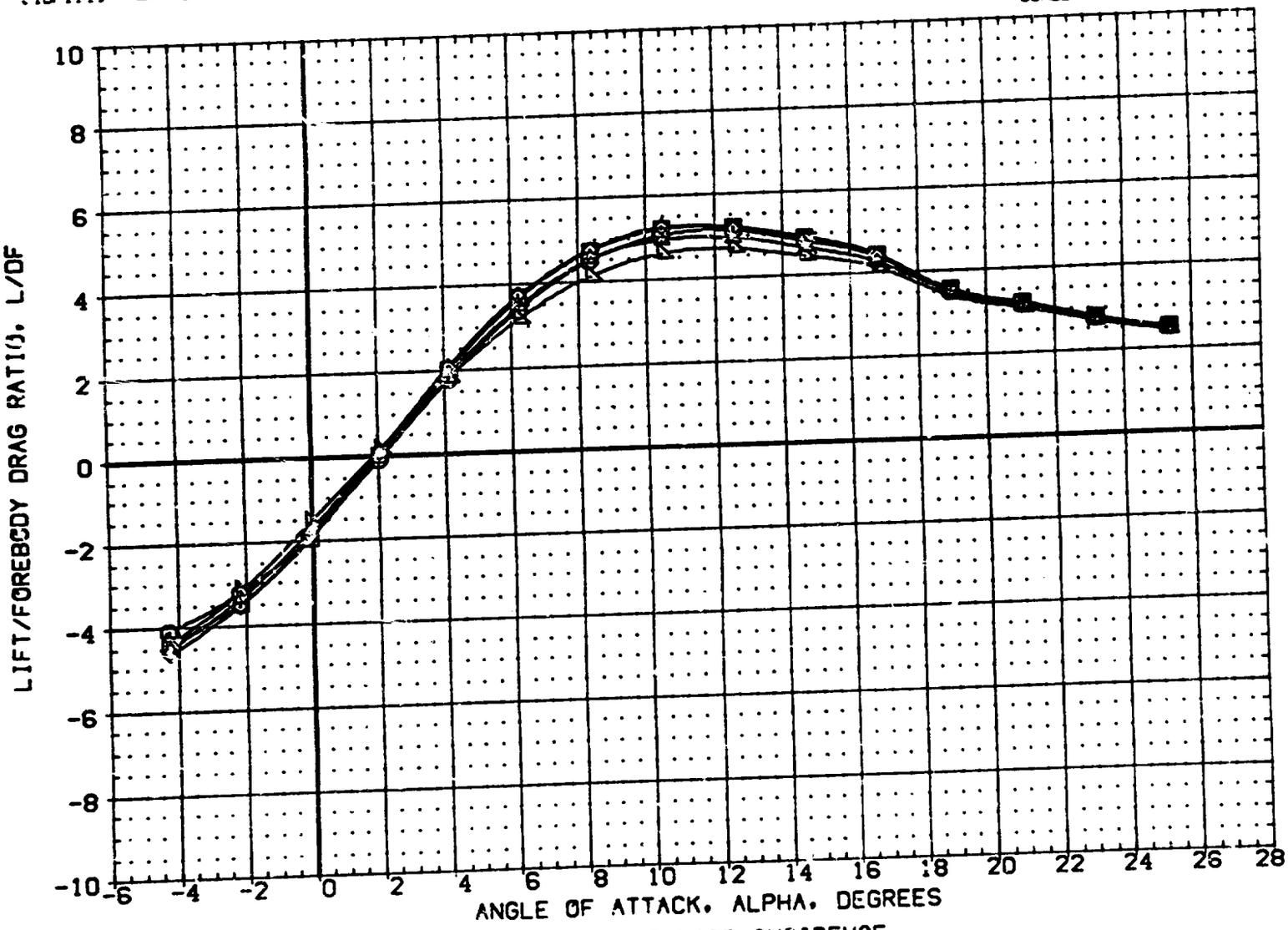


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A) MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP116)	○	OA21	B17C7	H3M4F5	V107E23V7R6X9
(IDP115)	□	OA21	B17C7	H3M4F5	V107E23V7R6X9
(IDP112)	◇	OA21	B17C7	H3M4F5	V107E23V7R6X9
(IDP113)	△	OA21	B17C7	H3M4F5	V107E23V7R6X9
(IDP114)	◁	OA21	B17C7	H3M4F5	V107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

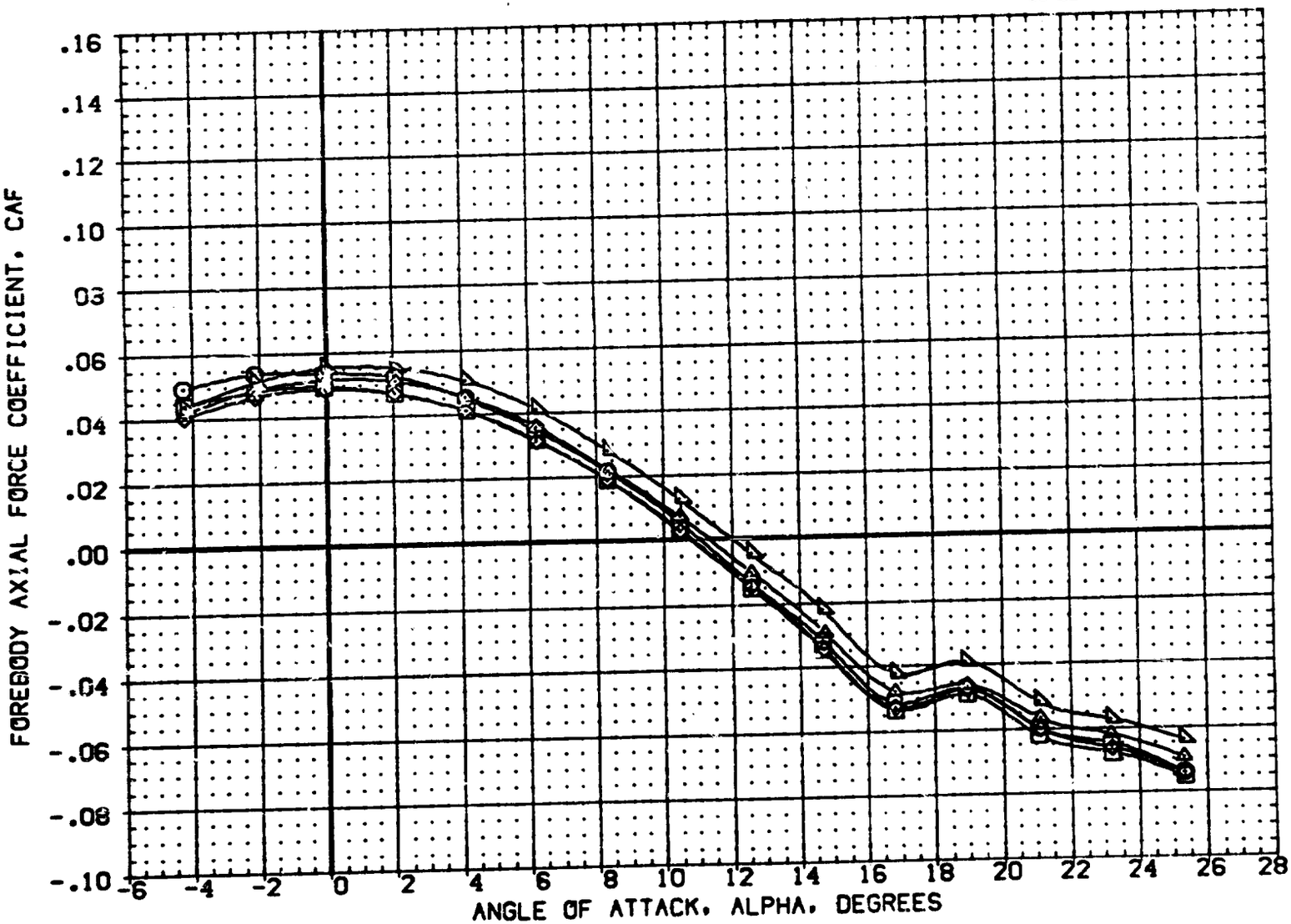


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P116)	□	CA21	B17C7 H3M4F5	V107E23V7R6X9	
(10P115)	○	CA21	B17C7 H3M4F5	V107E23V7R6X9	
(10P112)	◇	CA21	B17C7 H3M4F5	V107E23V7R6X9	
(10P113)	△	CA21	B17C7 H3M4F5	V107E23V7R6X9	
(10P114)	◺	CA21	B17C7 H3M4F5	V107E23V7R6X9	

CANARD	ELEVON	BDFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

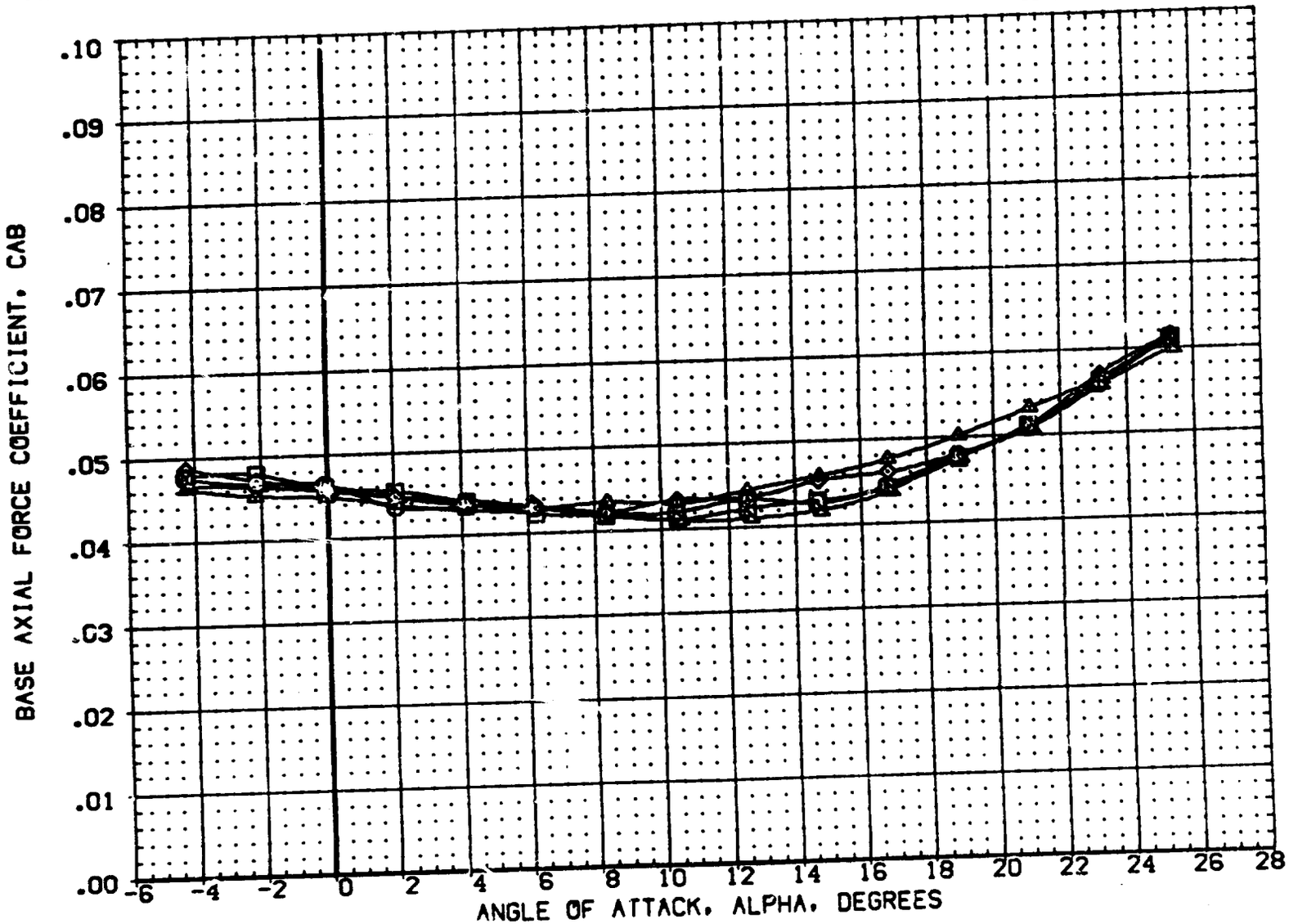


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BOFLAP	SPDBRK
(1DP116)	○	0A21	B17C7 H3M4F5	W107E23V7R6X9	-20.000	.000	-18.000	55.000
(1DP115)	□	0A21	B17C7 H3M4F5	W107E23V7R6X9	-10.000	.000	-18.000	55.000
(1DP112)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(1DP113)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000
(1DP114)	▽	0A21	B17C7 H3M4F5	W107E23V7R6X9	20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

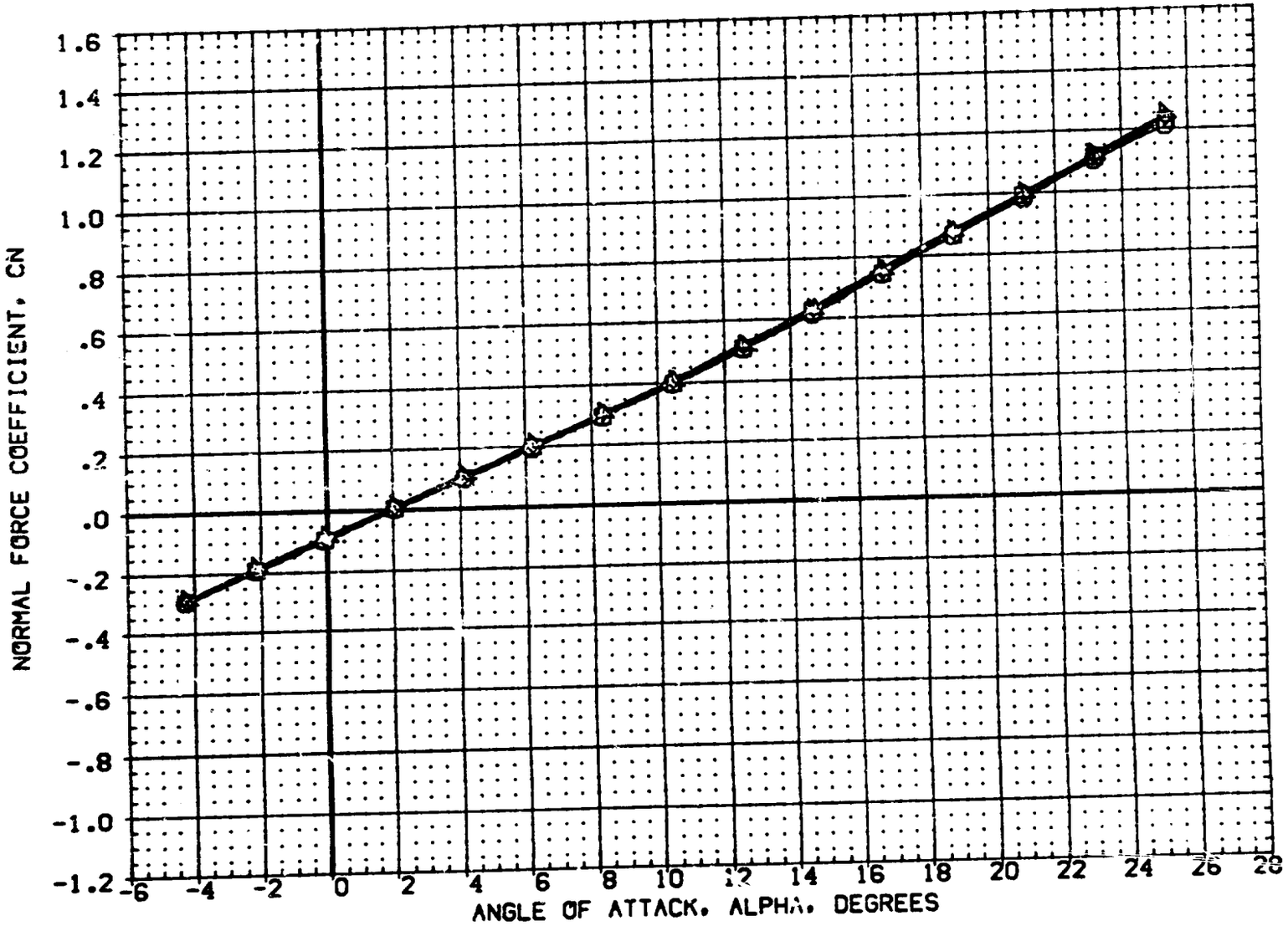


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(IDP116)	□	OA21	B17C7 H3M4F5 V107E23V7R6X9
(IDP115)	◇	OA21	B17C7 H3M4F5 V107E23V7R6X9
(IDP112)	◇	OA21	B17C7 H3M4F5 V107E23V7R6X9
(IDP113)	△	OA21	B17C7 H3M4F5 V107E23V7R6X9
(IDP114)	△	OA21	B17C7 H3M4F5 V107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

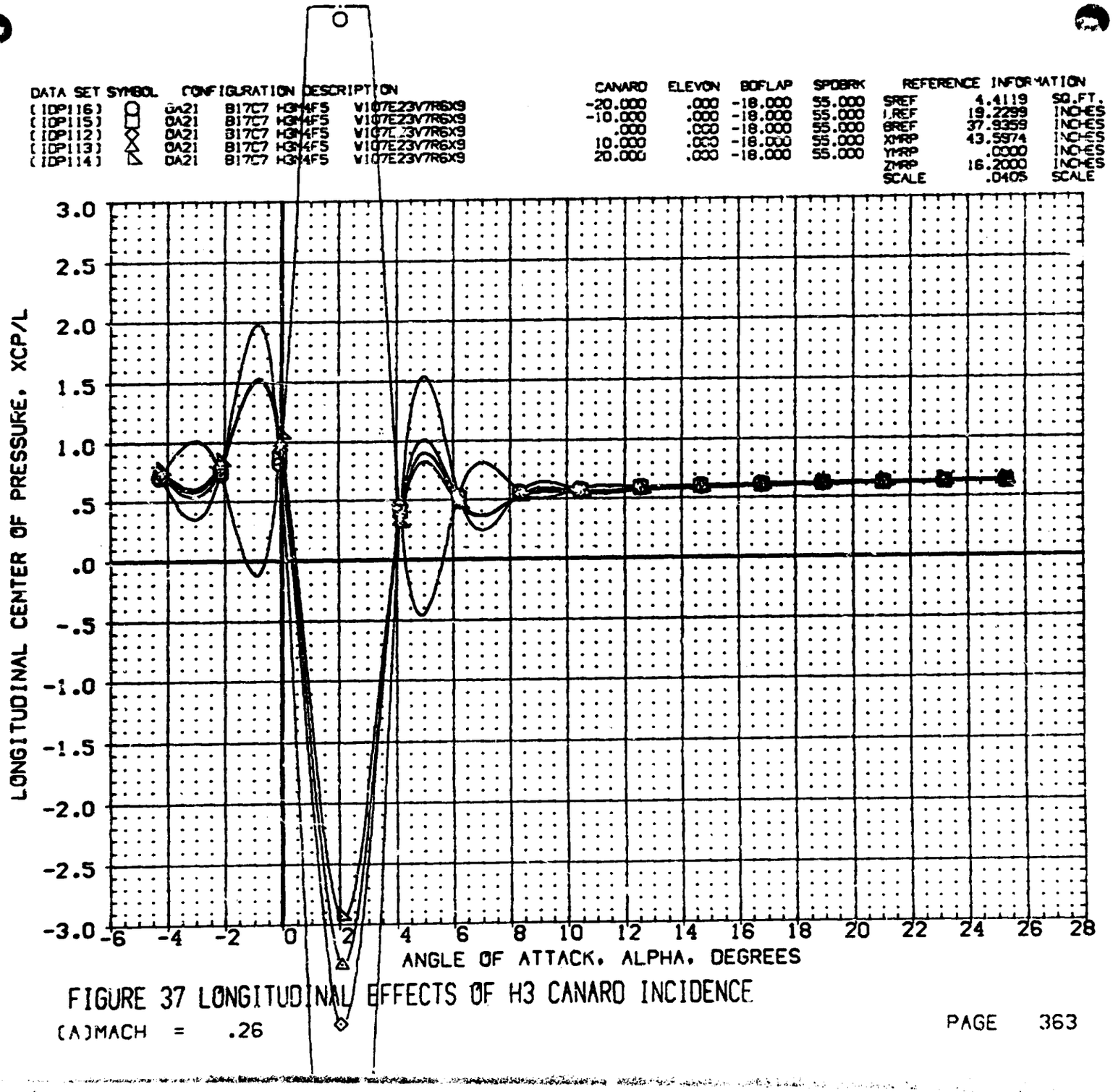


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP116)	□	0A21	B17C7 H5 14F5	W107E23V7R6X9	
(IDP115)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP112)	◇	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP113)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	
(IDP114)	△	0A21	B17C7 H3M4F5	W107E23V7R6X9	

CANARD	ELEVON	BDFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

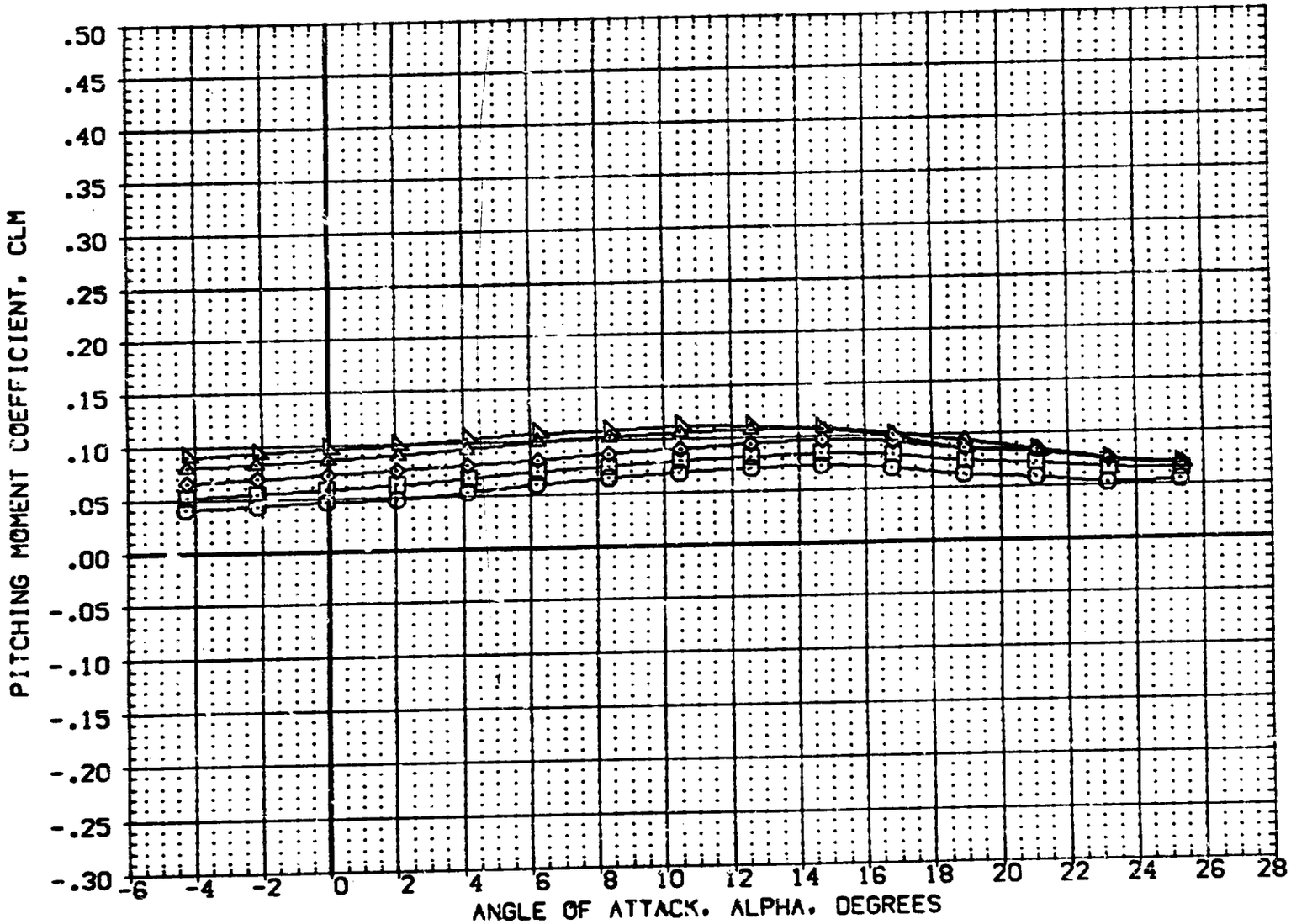


FIGURE 37 LONGITUDINAL EFFECTS OF H3 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP121)	□	0A21	B17C7 H4M4F5	W107E23V7K6X9
(IDP126)	▽	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP117)	◇	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP118)	△	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP119)	◁	0A21	B17C7 H4M4F5	W107E23V7R6X9

CANARD	ELEVON	UOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

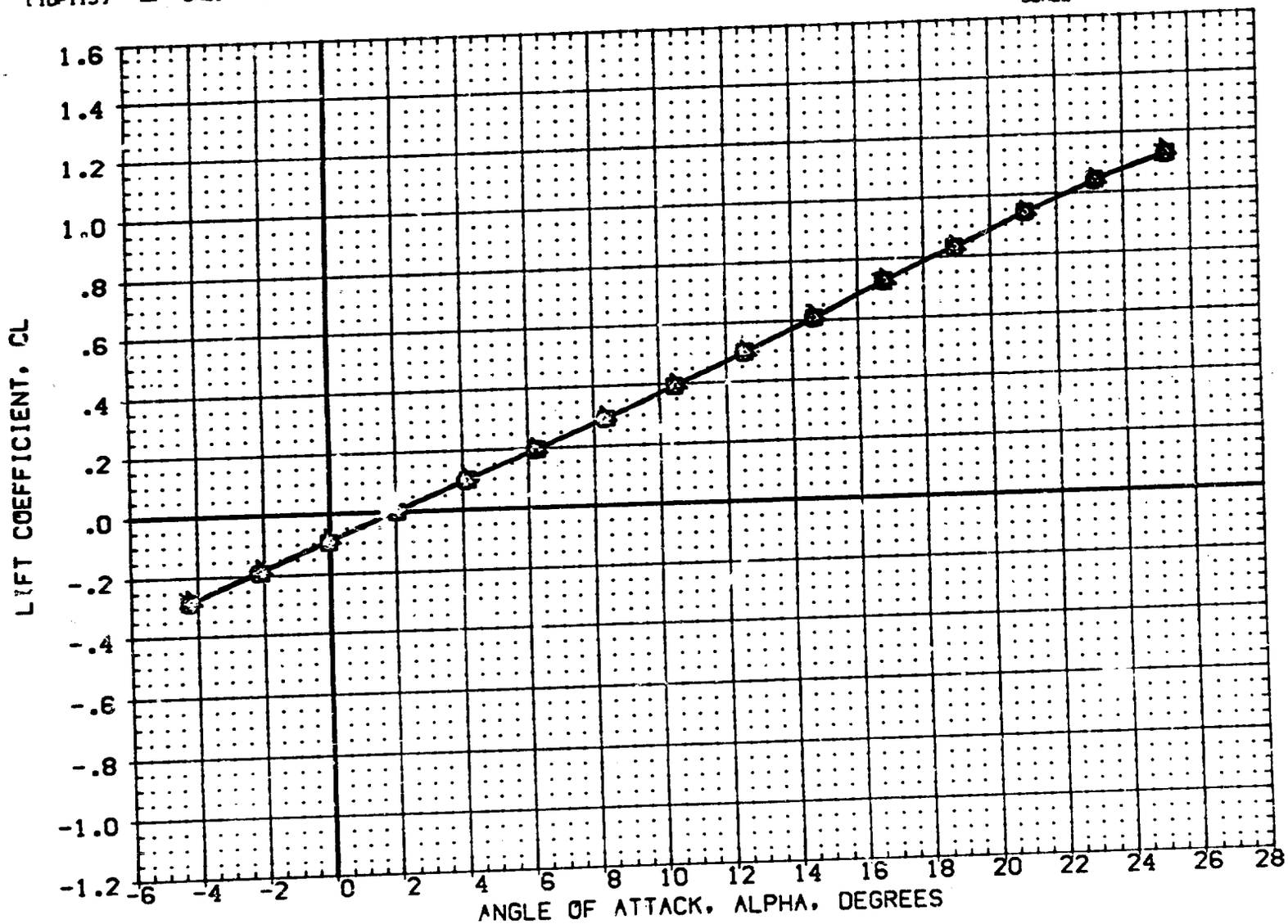


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP121)		OA21	B17C7 H4M4F5	W107E23V7R6X9	
(IDP120)		OA21	B17C7 H4M4F5	W107E23V7R6X9	
(IDP117)		OA21	B17C7 H4M4F5	W107E23V7R6X9	
(IDP118)		OA21	B17C7 H4M4F5	W107E23V7R6X9	
(IDP119)		OA21	B17C7 H4M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

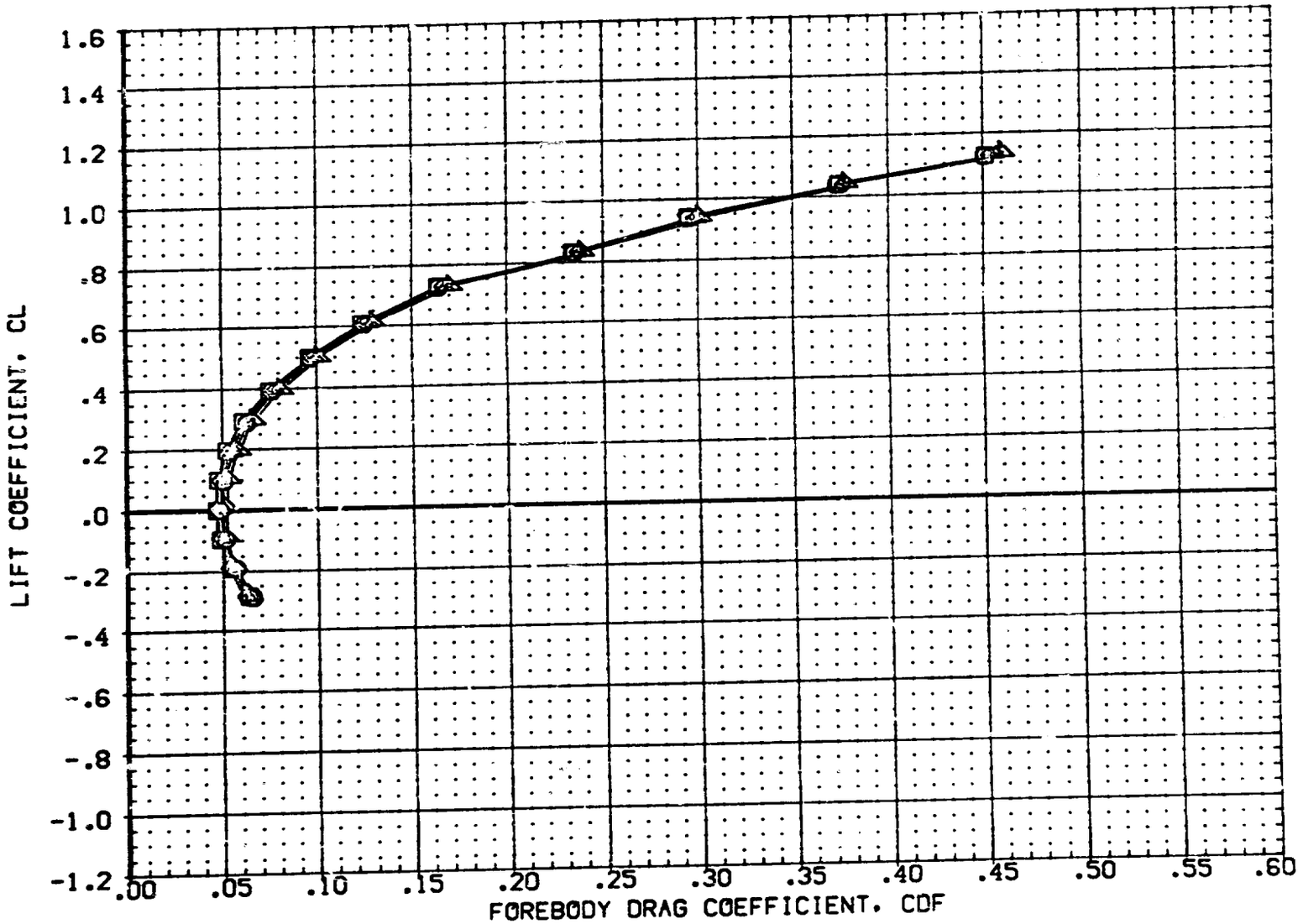


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP121)	○	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP120)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP117)	◇	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP118)	✕	0A21	B17C7 H4M4F5	W107E23V7R6X9
(IDP119)	△	0A21	B17C7 H4M4F5	W107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

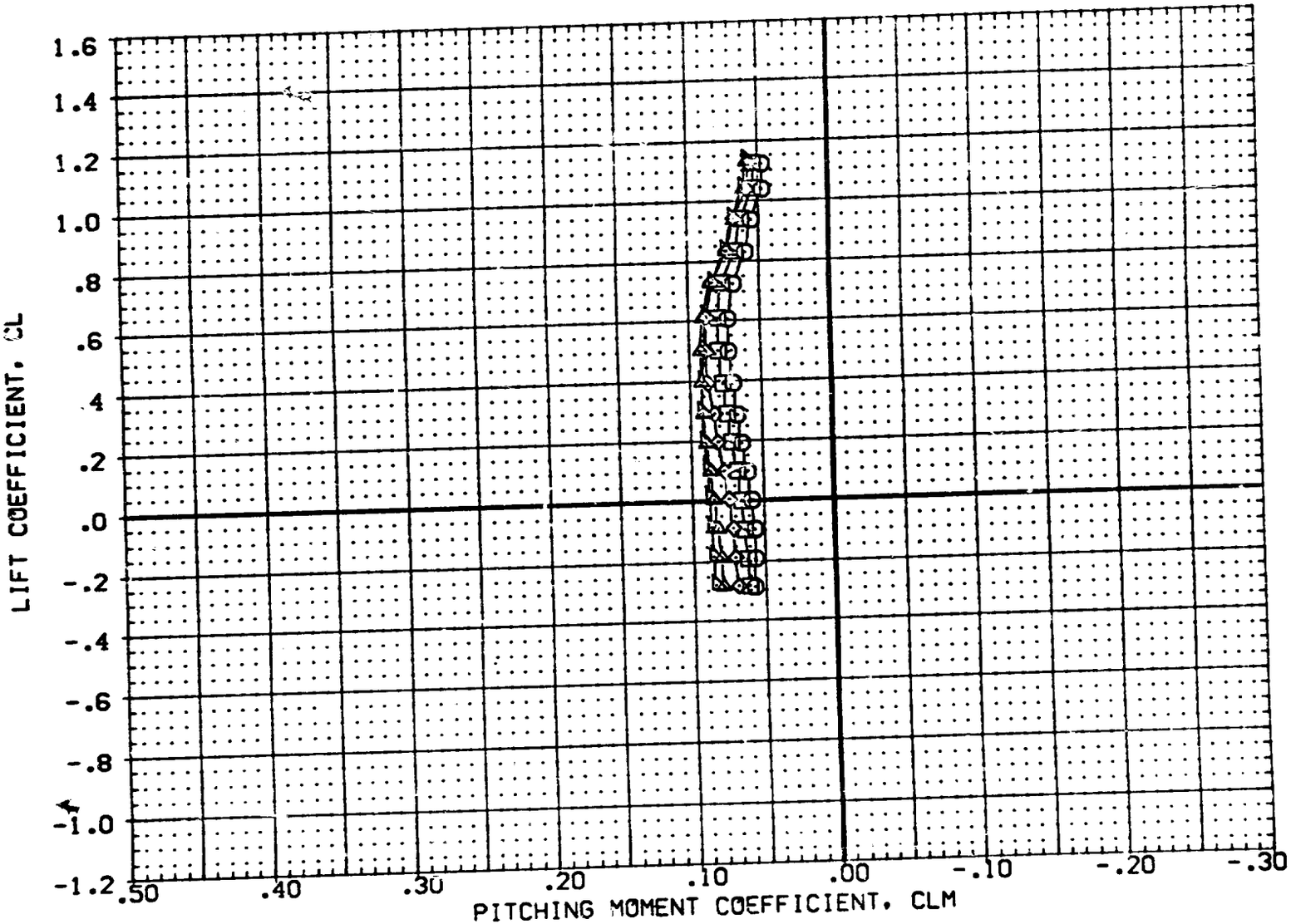


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BDFLAP	SPDBRK
(IDP121)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9	-20.000	.000	-18.000	55.000
(IDP120)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	-10.000	.000	-18.000	55.000
(IDP117)	◇	0A21	B17C7 H4M4F5	V107E23V7R6X9	.000	.000	-18.000	55.000
(IDP118)	△	0A21	B17C7 H4M4F5	V107E23V7R6X9	10.000	.000	-18.000	55.000
(IDP119)	▽	0A21	B17C7 H4M4F5	V107E23V7R6X9	20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

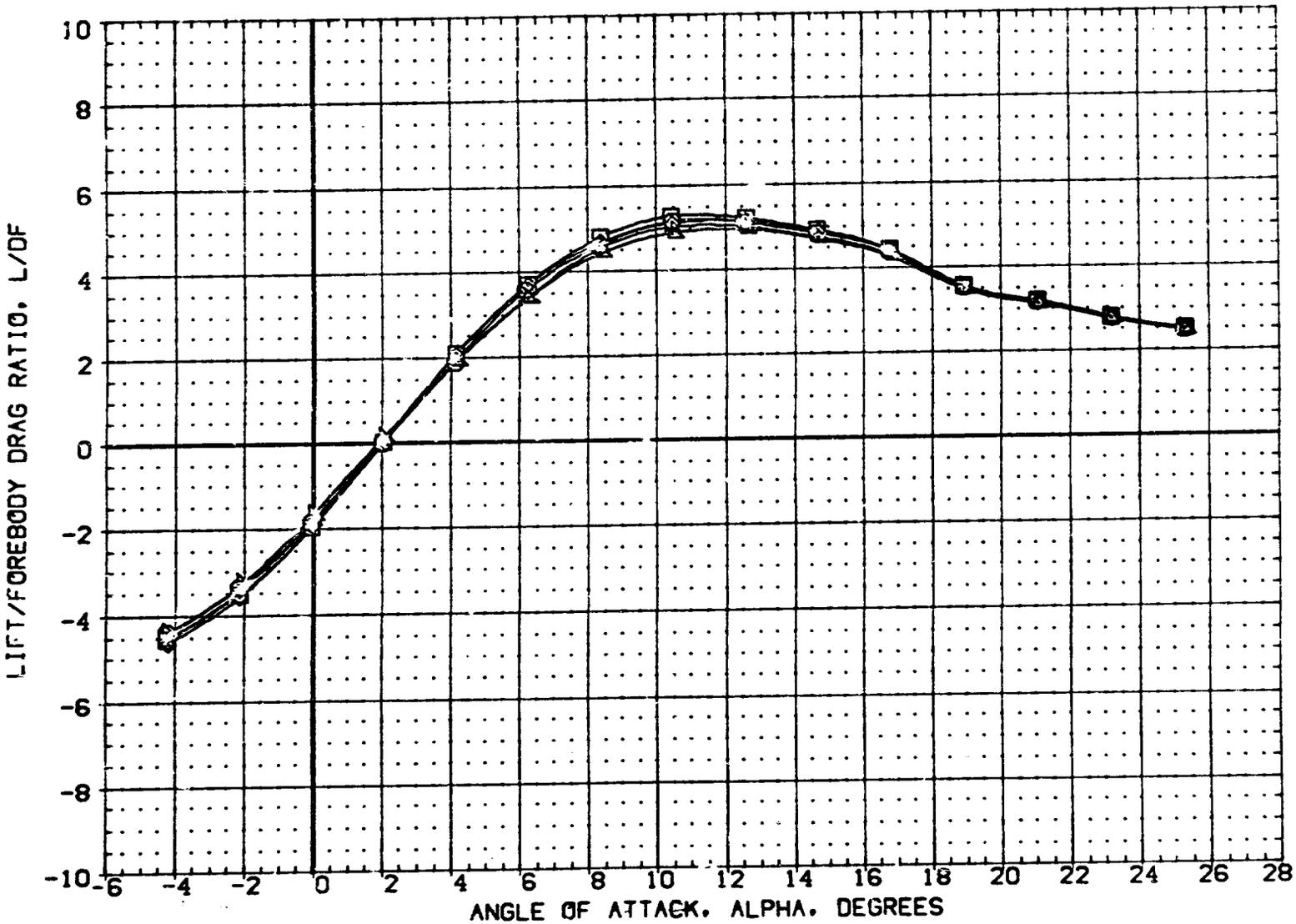


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP121)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(IDP120)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(IDP117)	⋈	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(IDP118)	◁	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(IDP119)	◁	0A21	B17C7 H4M4F5	V107E23V7R6X9	

CANARD	ELEVON	BDFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

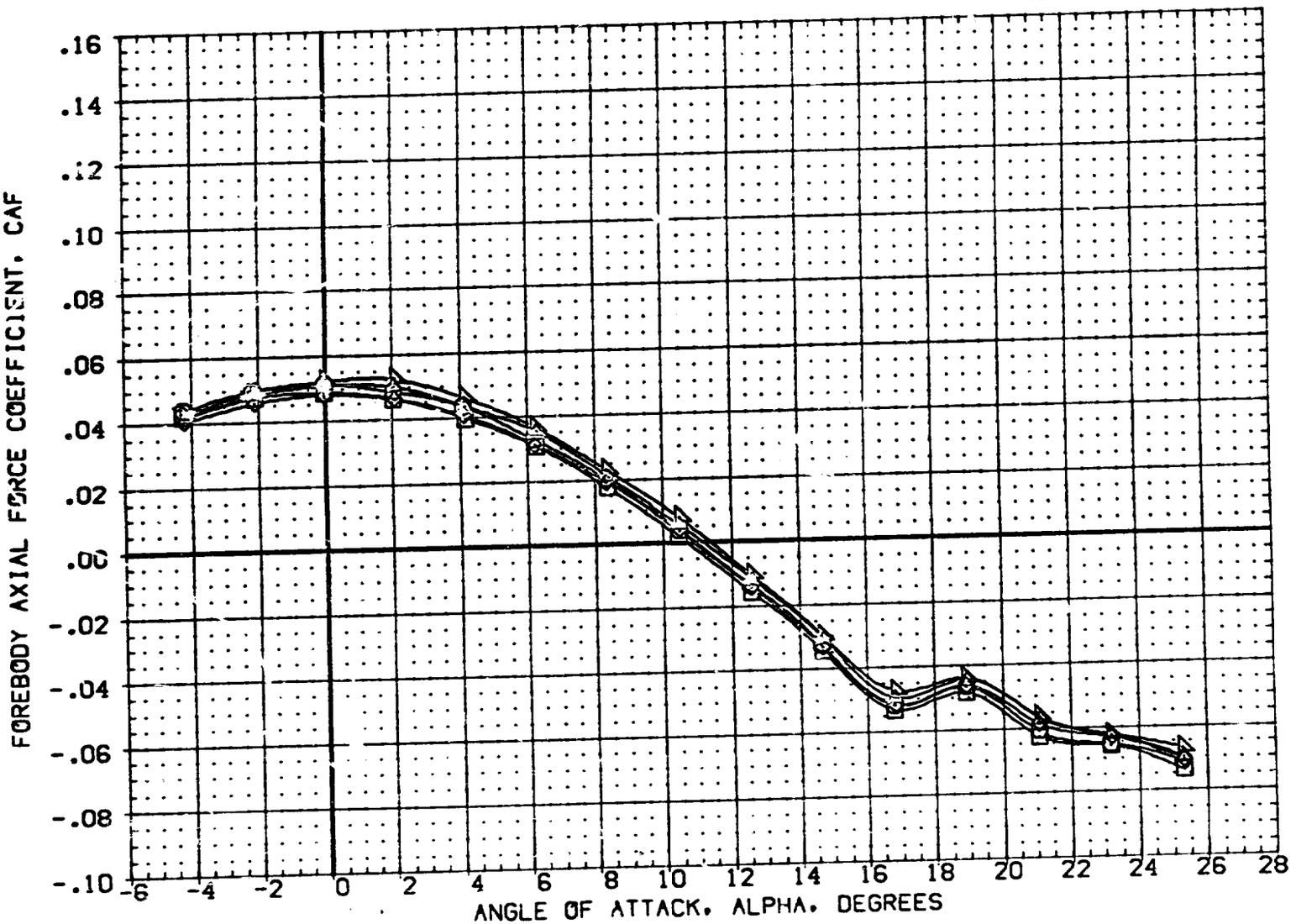


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P121)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9	
(10P120)	□	0A21	B17C7 H4M4F5	W107E23V7R6X9	
(10P117)	◇	0A21	B17C7 H4M4F5	W107E23V7R6X9	
(10P118)	△	0A21	B17C7 H4M4F5	W107E23V7R6X9	
(10P119)	△	0A21	B17C7 H4M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

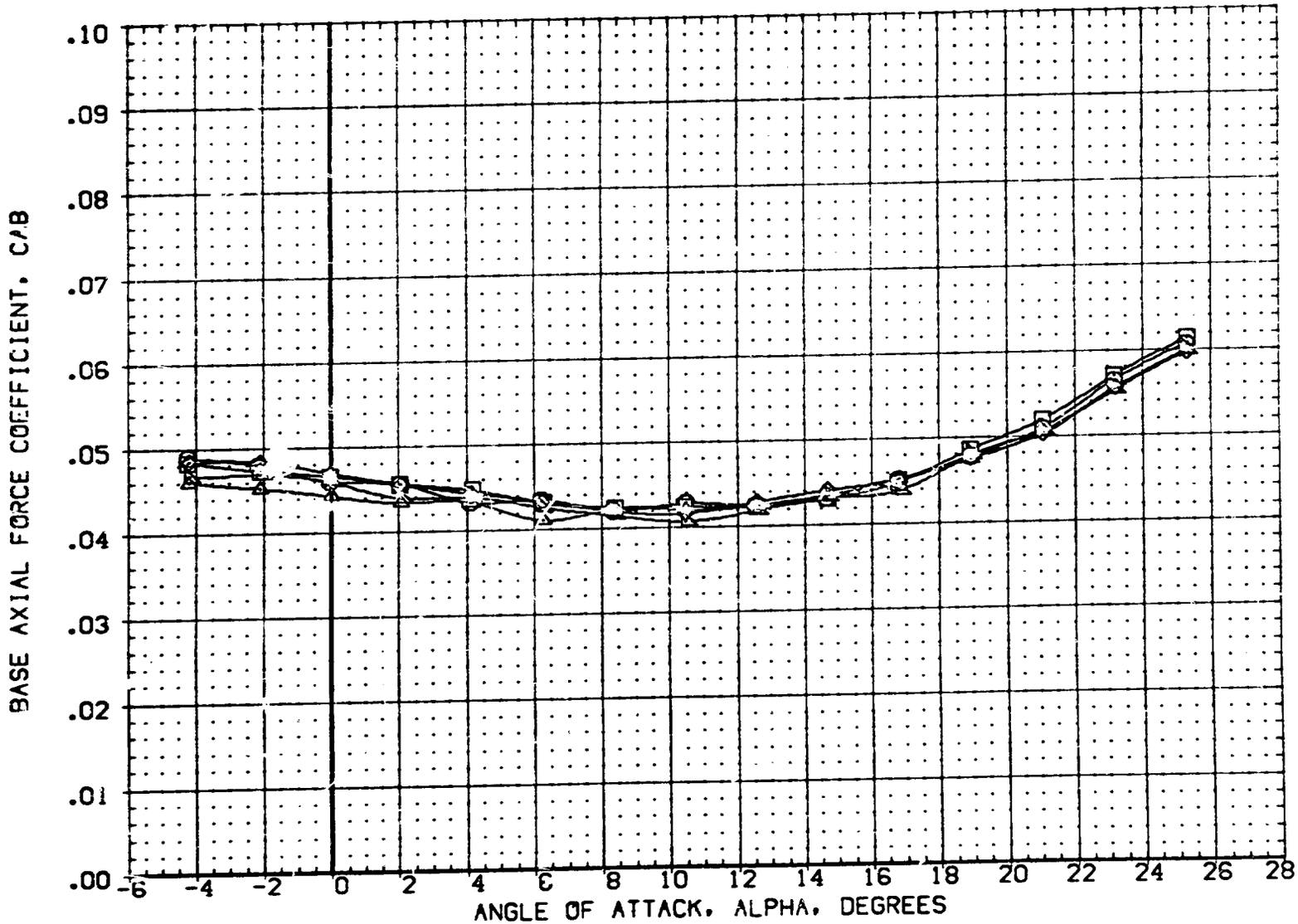


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(IDP121)	○	CA21	B17C7 H4M4F5	W107E23V7R6X9
(IDP120)	□	CA21	B17C7 H4M4F5	W107E23V7R6X9
(IDP117)	◇	CA21	B17C7 H4M4F5	W107E23V7R6X9
(IDP118)	△	CA21	B17C7 H4M4F5	W107E23V7R6X9
(IDP119)	▽	CA21	B17C7 H4M4F5	W107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

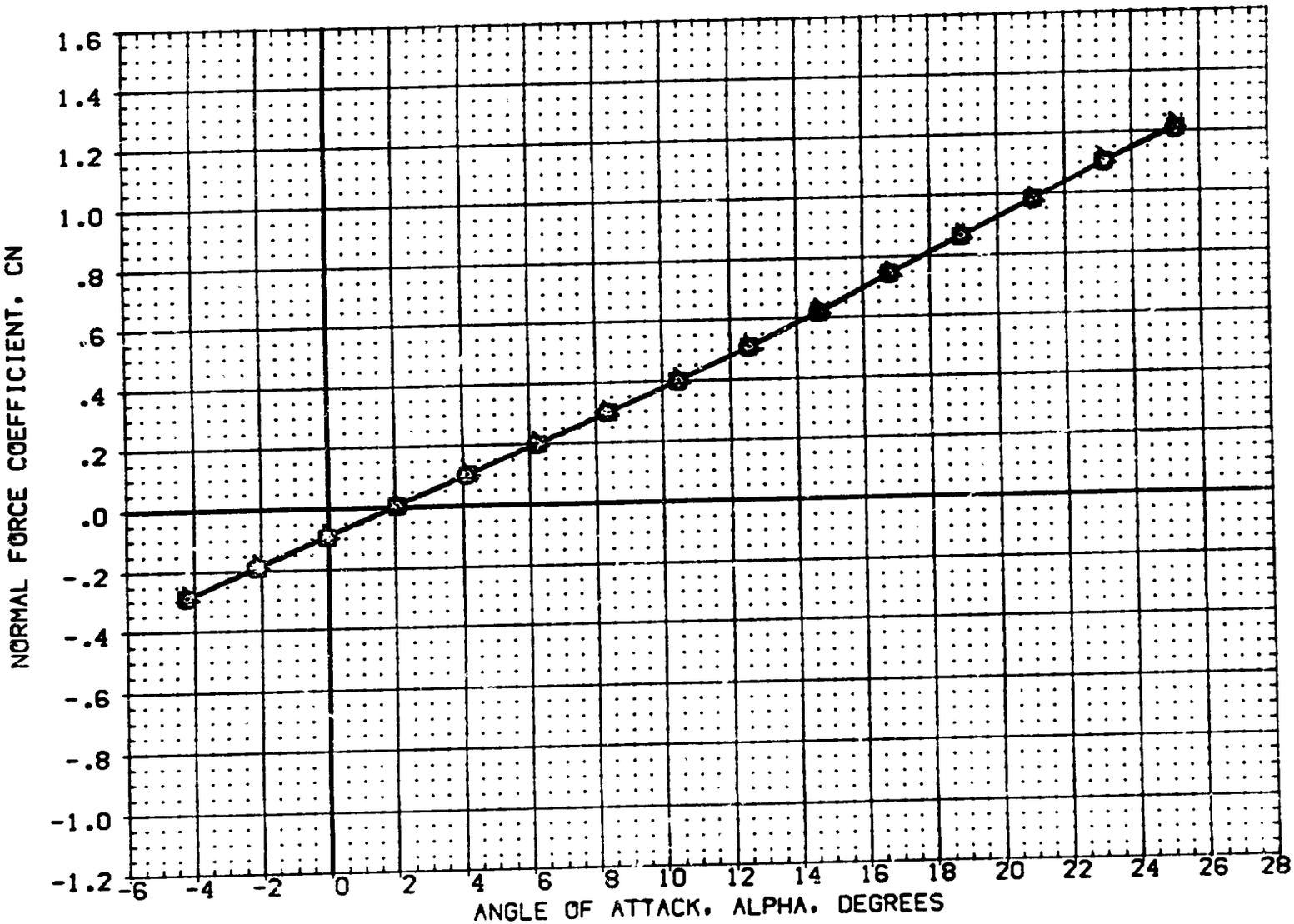


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BDFLAP	SPDBRK
(1DP121)	○	0A21	B17C7	H4M4F5 W107E23V7R6X9	-20.000	.000	-18.000	55.000
(1DP120)	□	0A21	B17C7	H4M4F5 W107E23V7R6X9	-10.000	.000	-18.000	55.000
(1DP117)	◇	0A21	B17C7	H4M4F5 W107E23V7R6X9	.000	.000	-18.000	55.000
(1DP118)	△	0A21	B17C7	H4M4F5 W107E23V7R6X9	10.000	.000	-18.000	55.000
(1DP119)	▽	0A21	B17C7	H4M4F5 W107E23V7R6X9	20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5574	INCHES
YMRP	.0000	INCHES
ZMRP	16.2030	INCHES
SCALE	.0405	SCALE

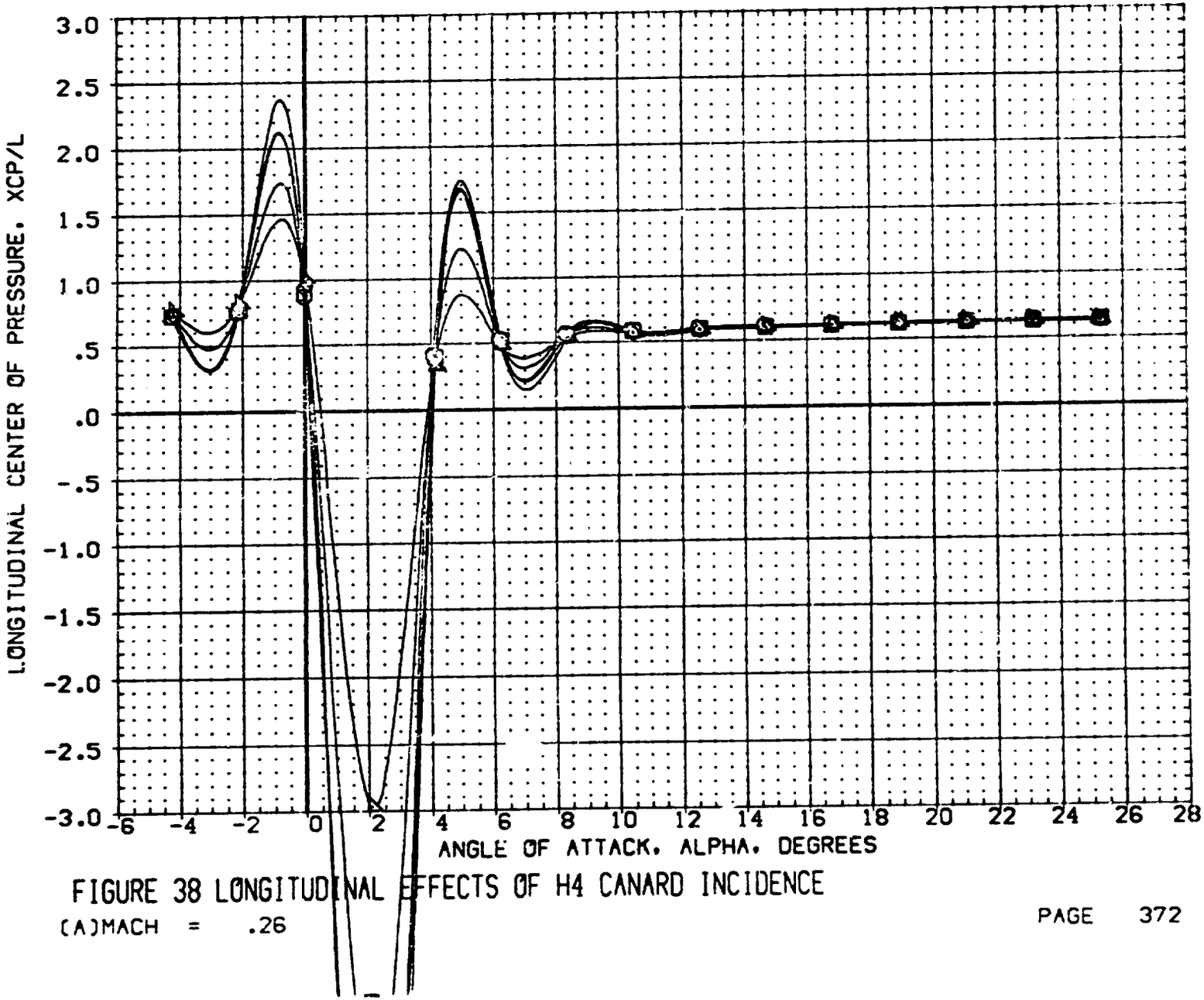


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P121)	○	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(10P120)	□	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(10P117)	◇	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(10P118)	△	0A21	B17C7 H4M4F5	V107E23V7R6X9	
(10P119)	▷	0A21	B17C7 H4M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

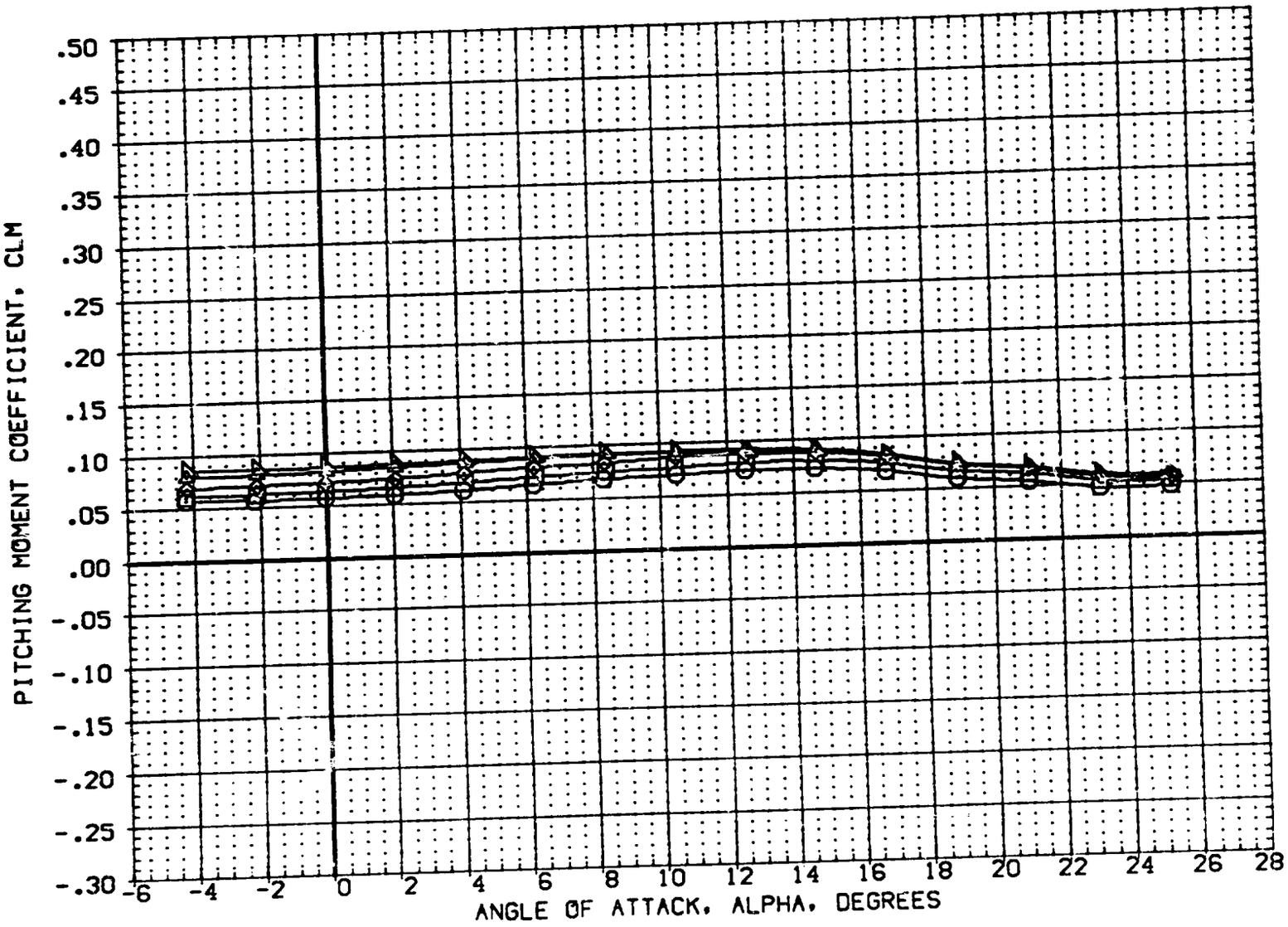


FIGURE 38 LONGITUDINAL EFFECTS OF H4 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION		
(10P126)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9
(10P125)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9
(10P122)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9
(10P123)	△	0A21	B17C7 H5M4F5	W107E23V7R6X9
(10P124)	▽	0A21	B17C7 H5M4F5	W107E23V7R6X9

CANARD	ELEVON	BDFLAP	SPDBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

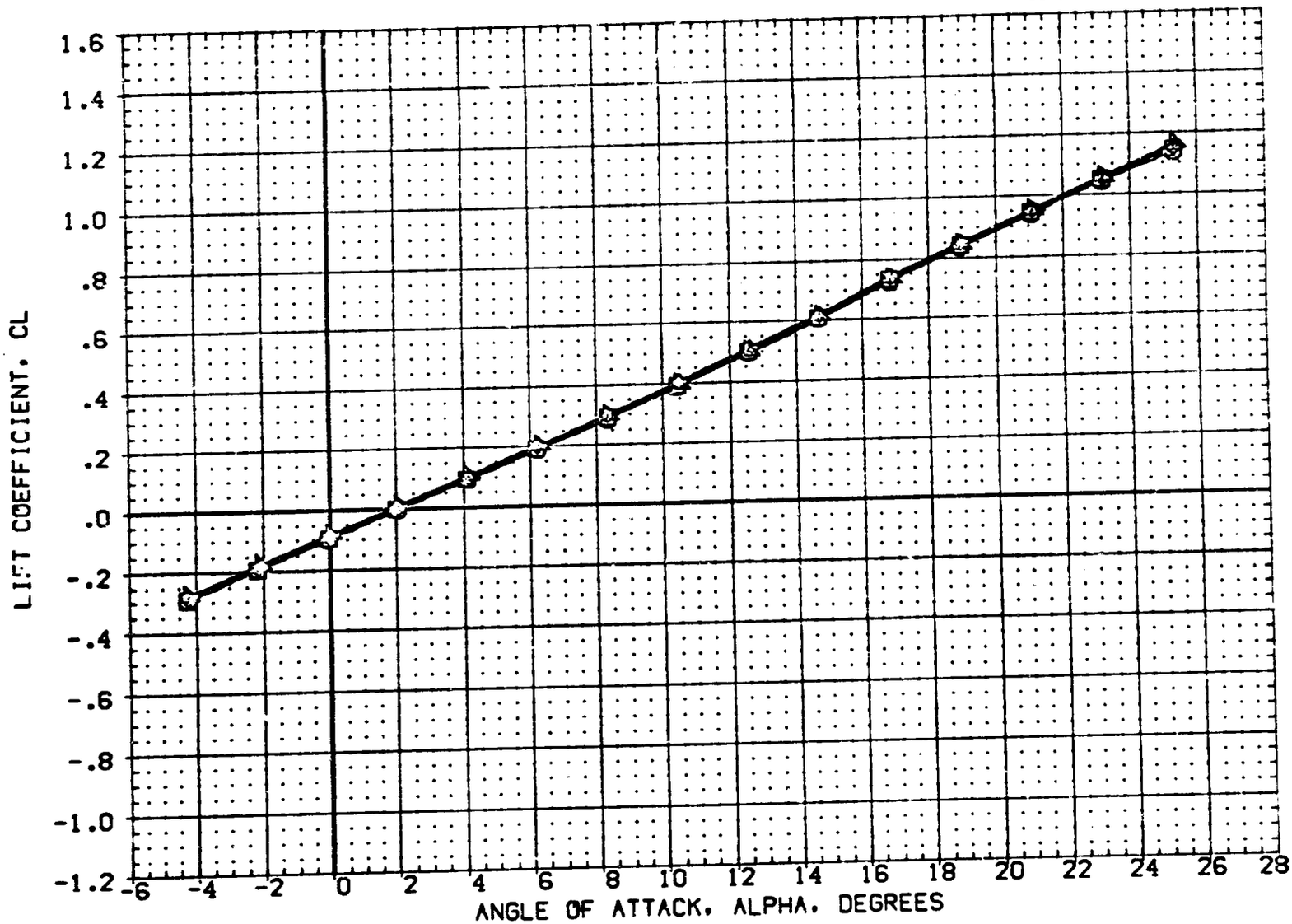


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(10P126)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(10P125)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(10P122)	⋈	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(10P123)	⋈	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(10P124)	△	3A21	B17C7 H5M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

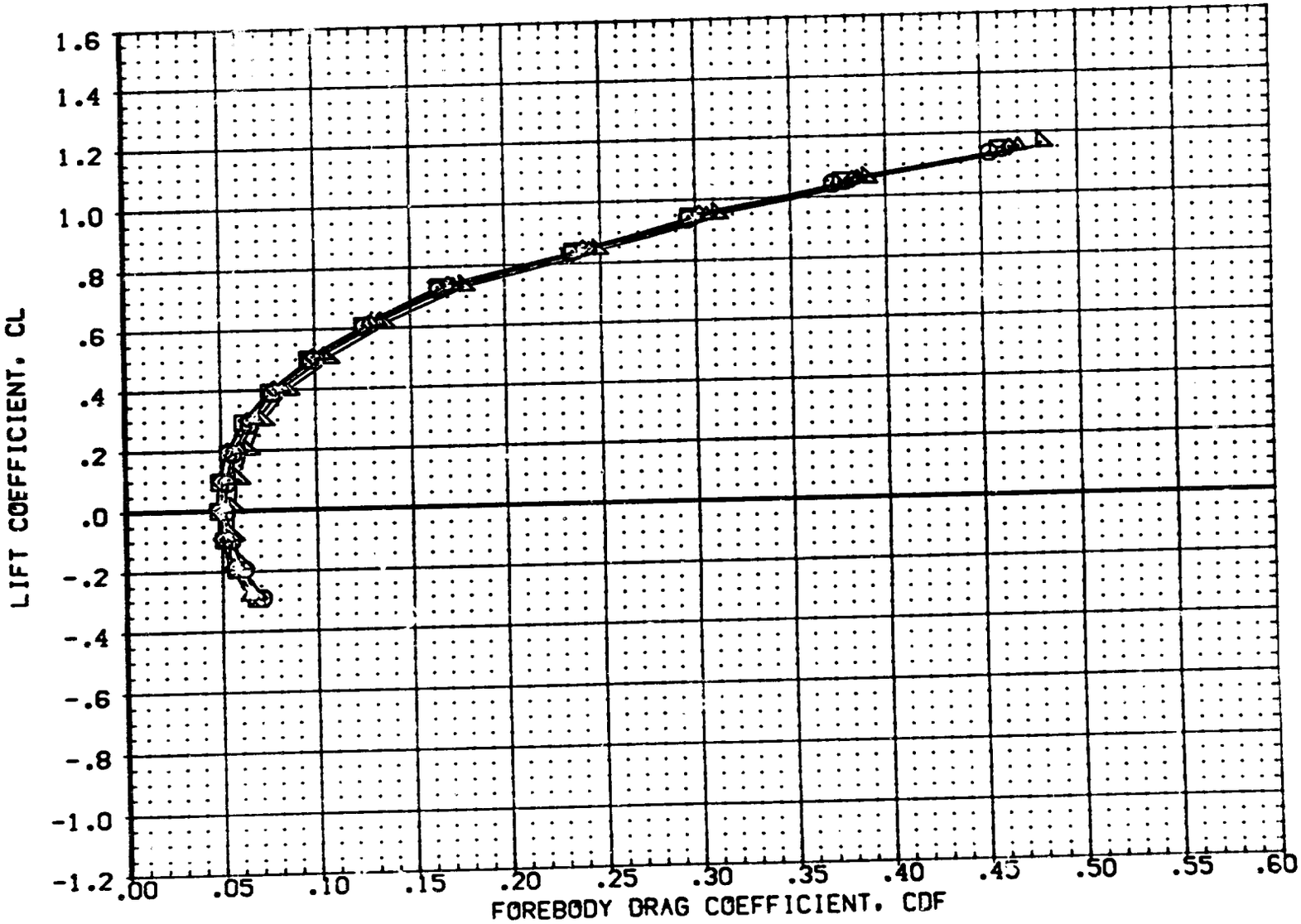


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BOFLAP	SPOBRK
(1DP126)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	-20.000	.000	-10.000	55.000
(1DP125)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	-10.000	.000	-10.000	55.000
(1DP122)	◇	0A21	B17C7 H5M4F5	V107E23V7R6X9	.000	.000	-10.000	55.000
(1DP123)	△	0A21	B17C7 H5M4F5	V107E23V7R6X9	10.000	.000	-10.000	55.000
(1DP124)	▽	0A21	B17C7 H5M4F5	V107E23V7R6X9	20.000	.000	-10.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

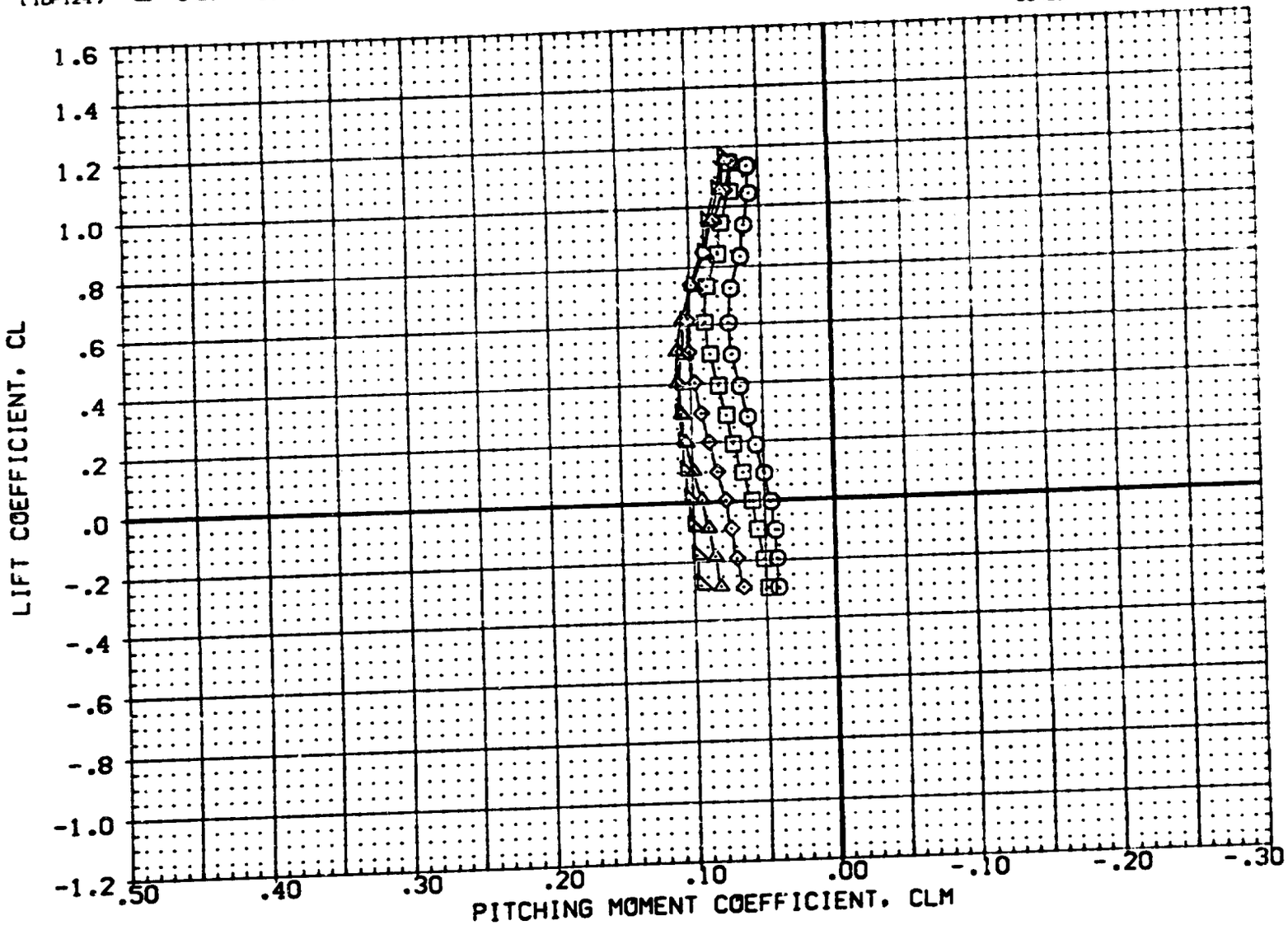


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP126)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP125)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP122)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP123)	△	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP124)	◁	0A21	B17C7 H5M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2020	INCHES
SCALE	.0405	SCALE

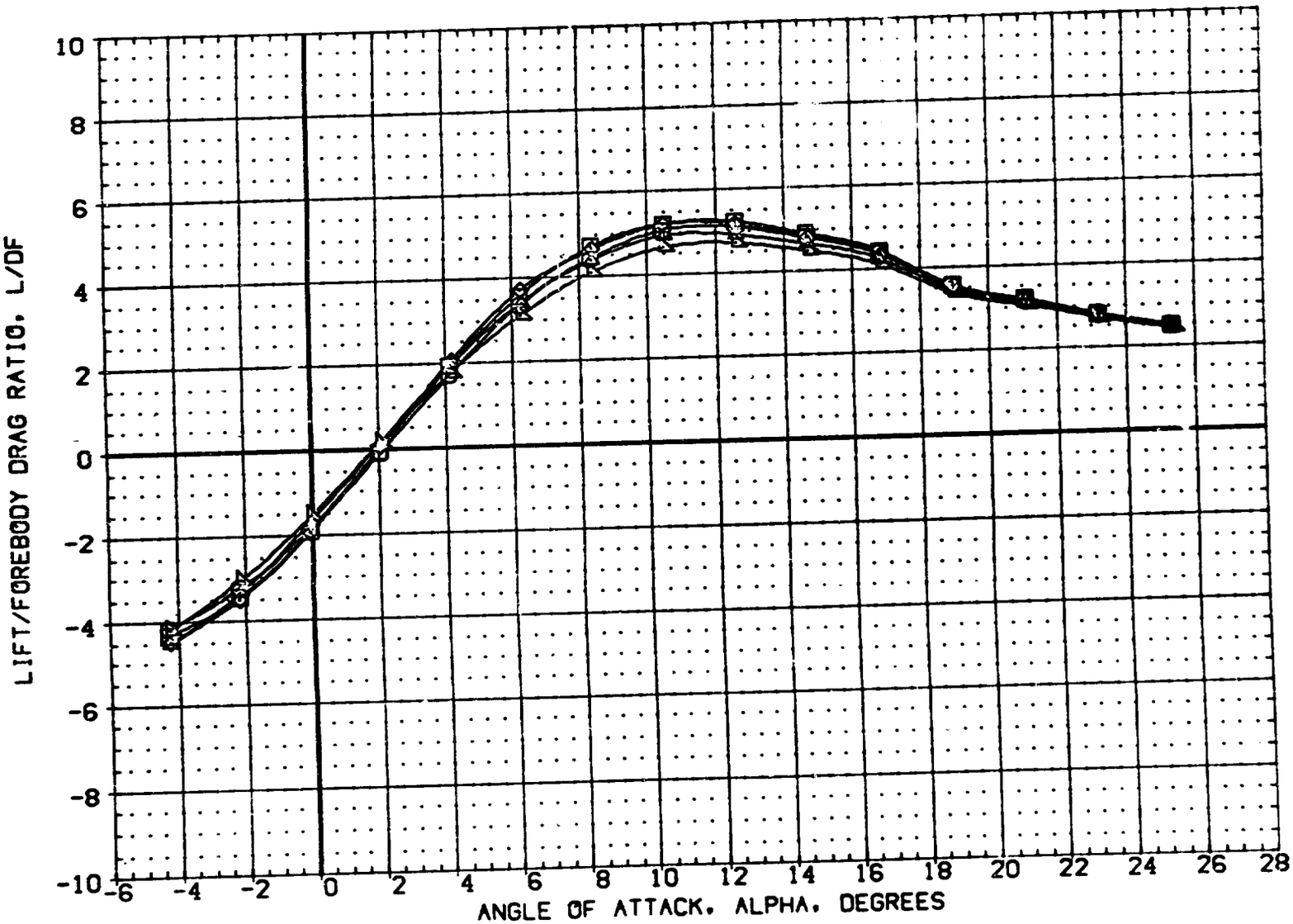


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			CANARD	ELEVON	BDFLAP	SPOBRK
(10P126)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	-20.000	.000	-18.000	55.000
(10P125)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	-10.000	.000	-18.000	55.000
(10P122)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000
(10P123)	△	0A21	B17C7 H5M4F5	W107E23V7R6X9	10.000	.000	-18.000	55.000
(10P124)	▽	0A21	B17C7 H5M4F5	W107E23V7R6X9	20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP126)	○	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(1DP125)	□	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(1DP122)	◇	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(1DP123)	△	0A21	B17C7 H5M4F5	V107E23V7R6X9	
(1DP124)	▽	0A21	B17C7 H5M4F5	V107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

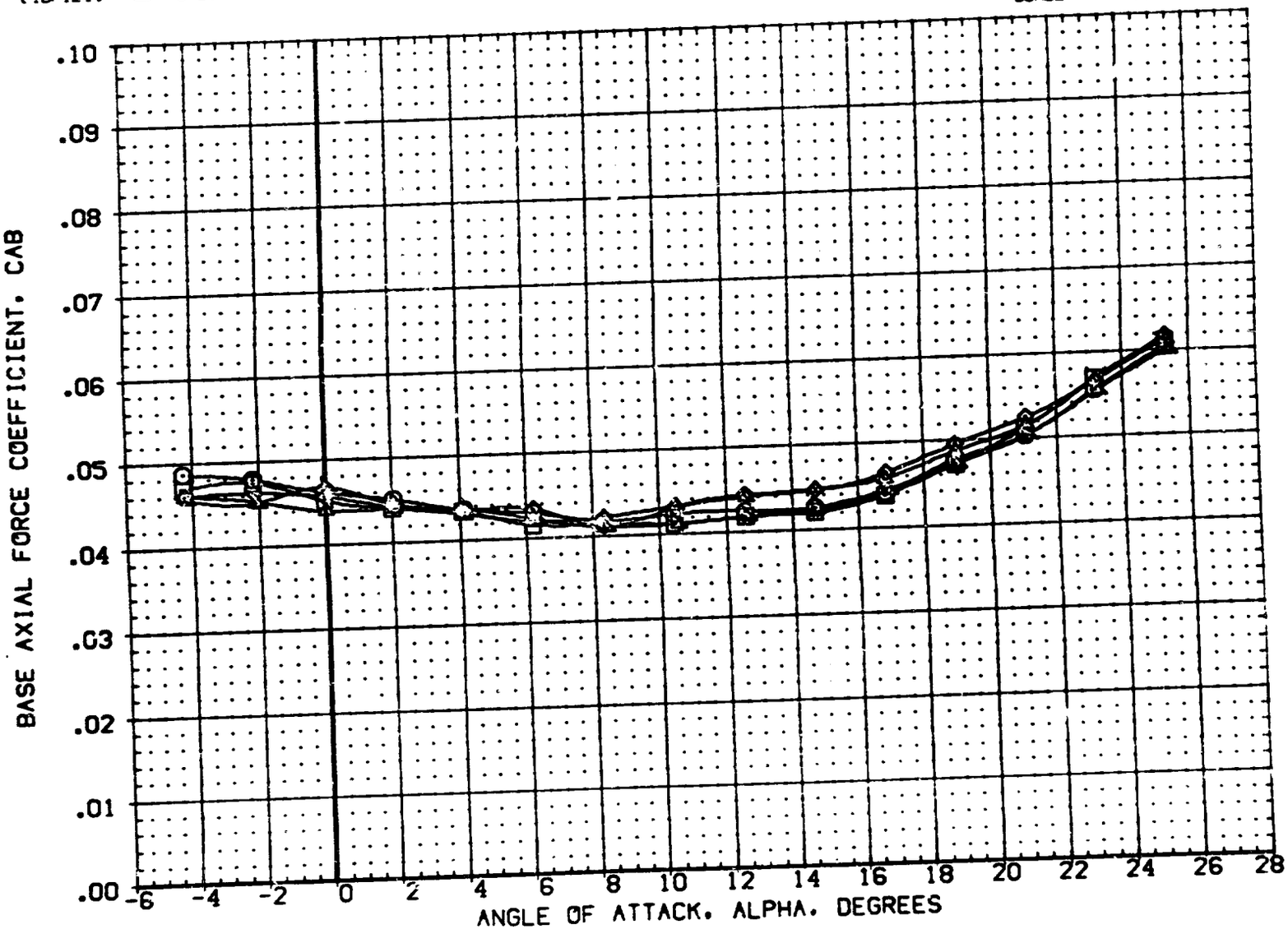


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP126)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP125)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP122)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP123)	⋈	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(IDP124)	△	0A21	B17C7 H5M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ_FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

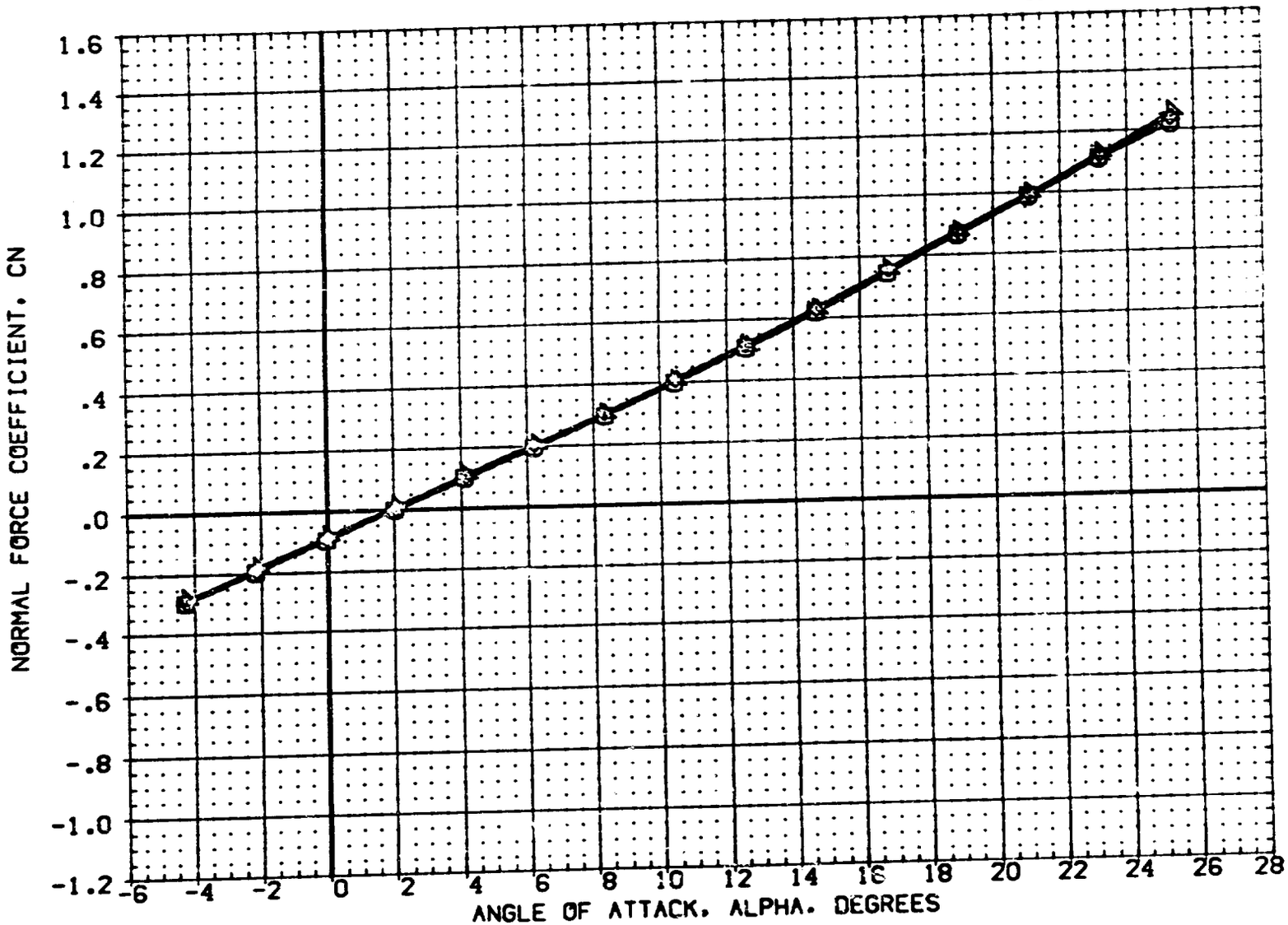


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

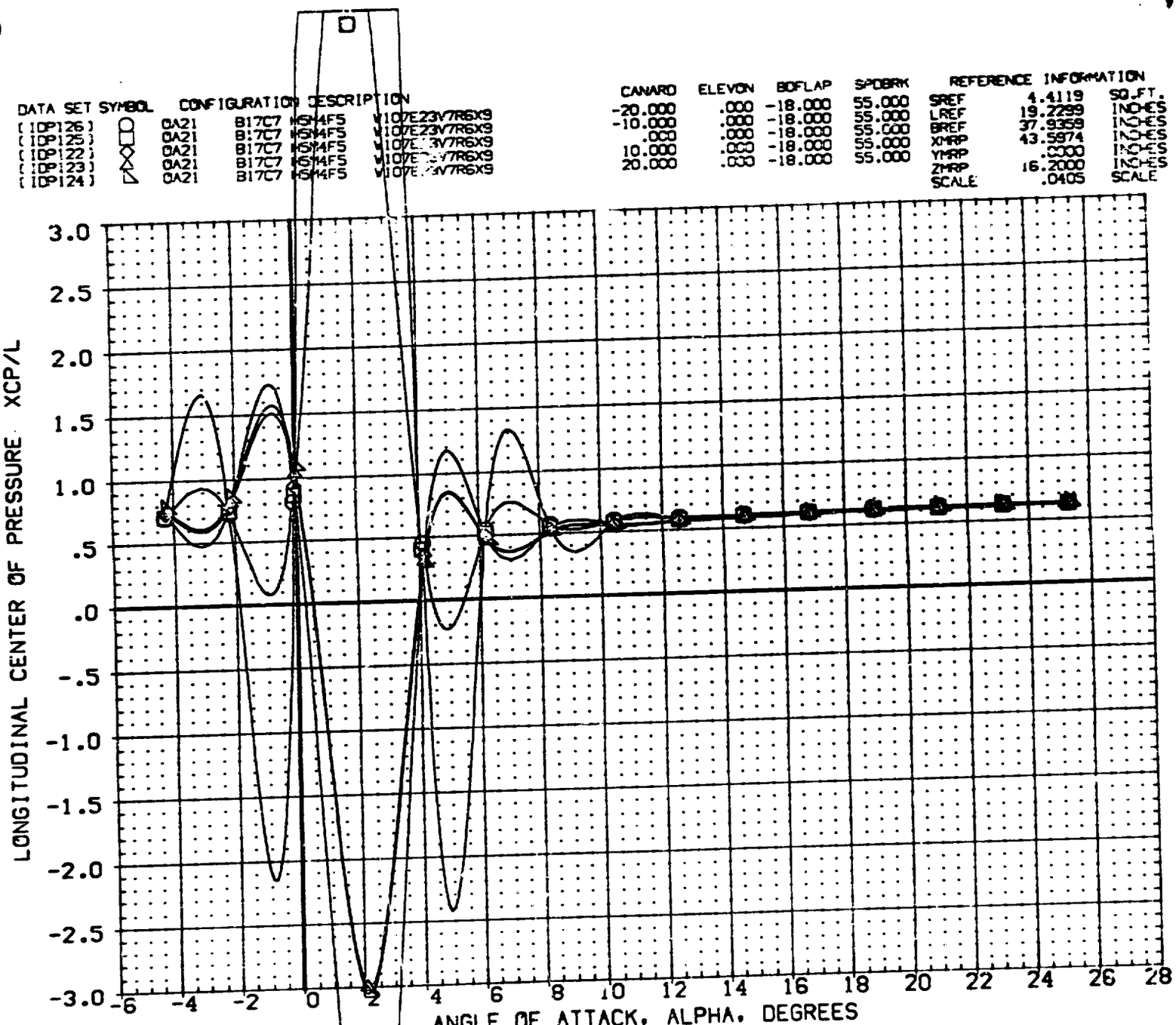


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(109126)	□	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(109125)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(109122)	◇	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(109123)	○	0A21	B17C7 H5M4F5	W107E23V7R6X9	
(109124)	△	0A21	B17C7 H5M4F5	W107E23V7R6X9	

CANARD	ELEVON	BOFLAP	SPOBRK
-20.000	.000	-18.000	55.000
-10.000	.000	-18.000	55.000
.000	.000	-18.000	55.000
10.000	.000	-18.000	55.000
20.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

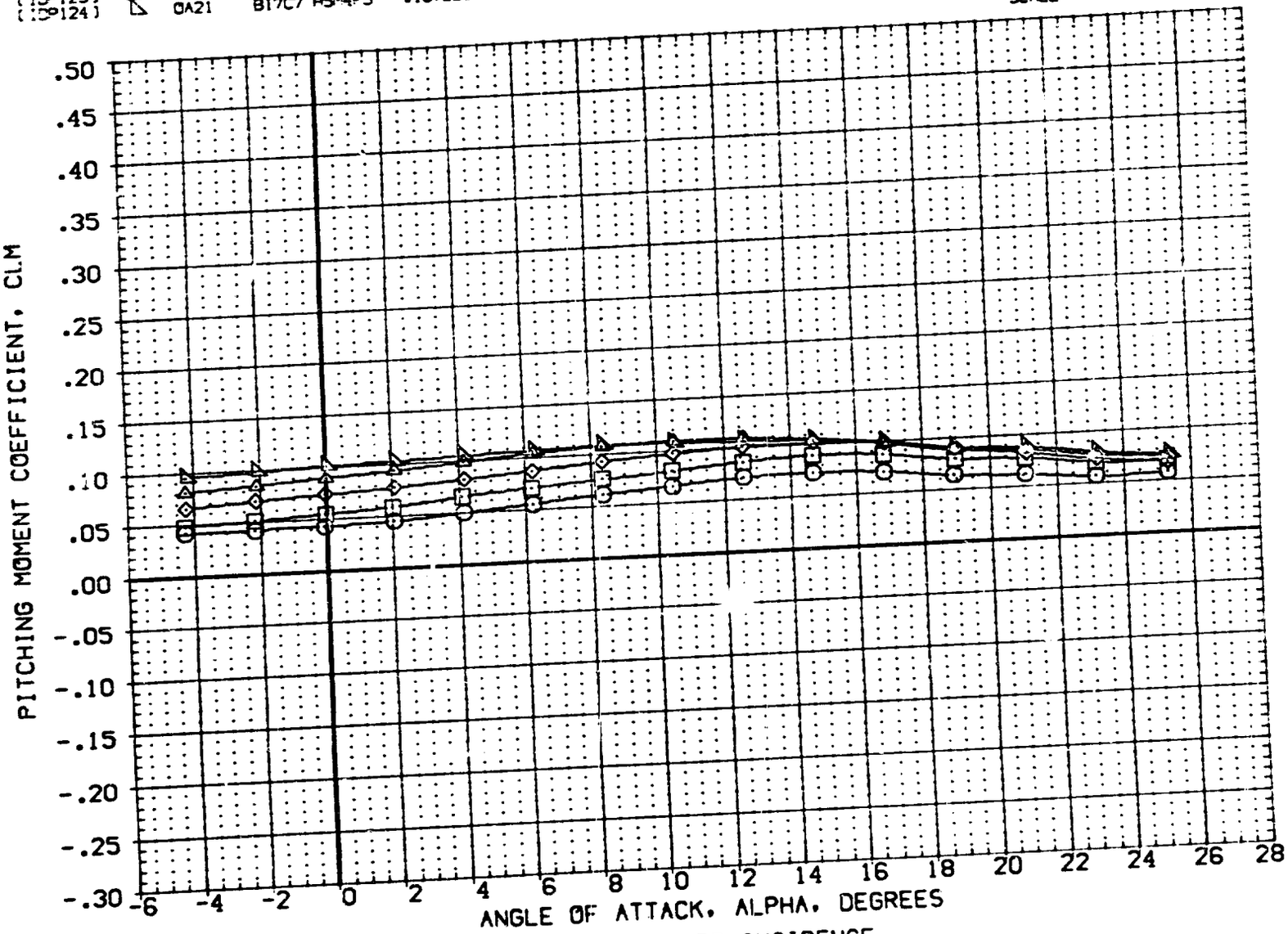


FIGURE 39 LONGITUDINAL EFFECT OF H5 CANARD INCIDENCE

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(DP001)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(DP072)	□	0A21	B17C7	H2M4F5	V107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2279	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

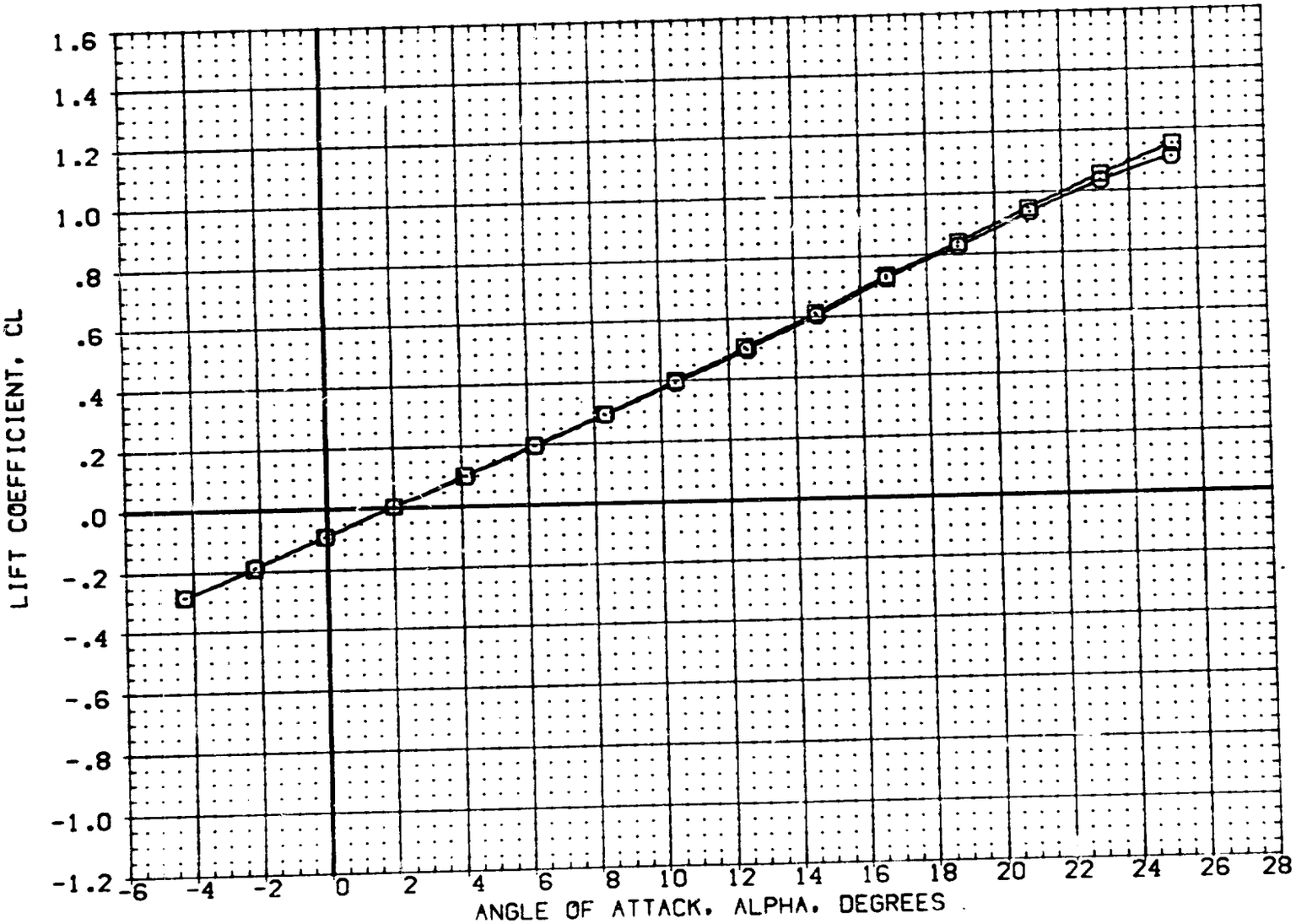


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

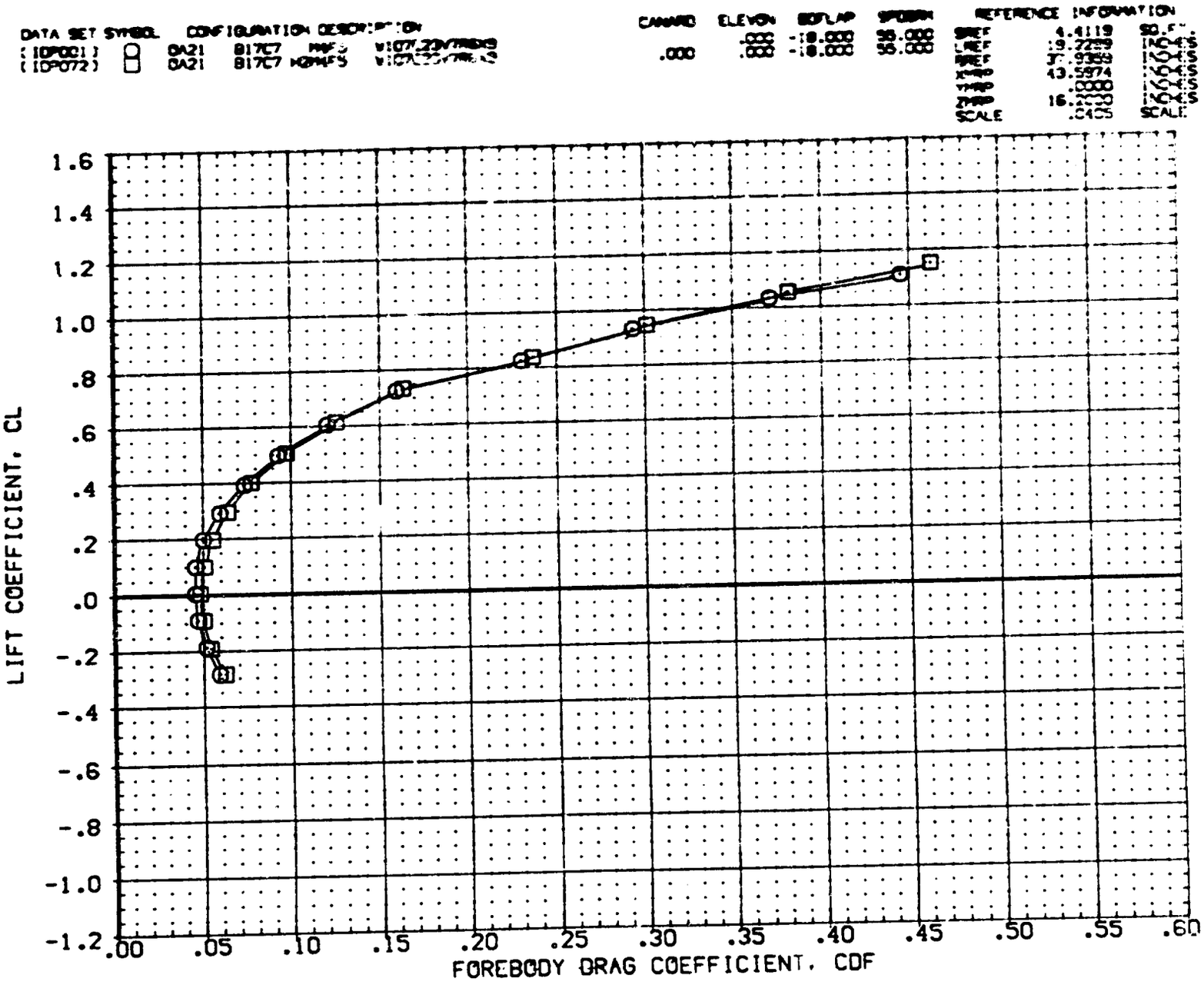


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[ ]DP001[ ]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[ ]DP072[ ]	□	0A21	B17C7	H2M4F5	W107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

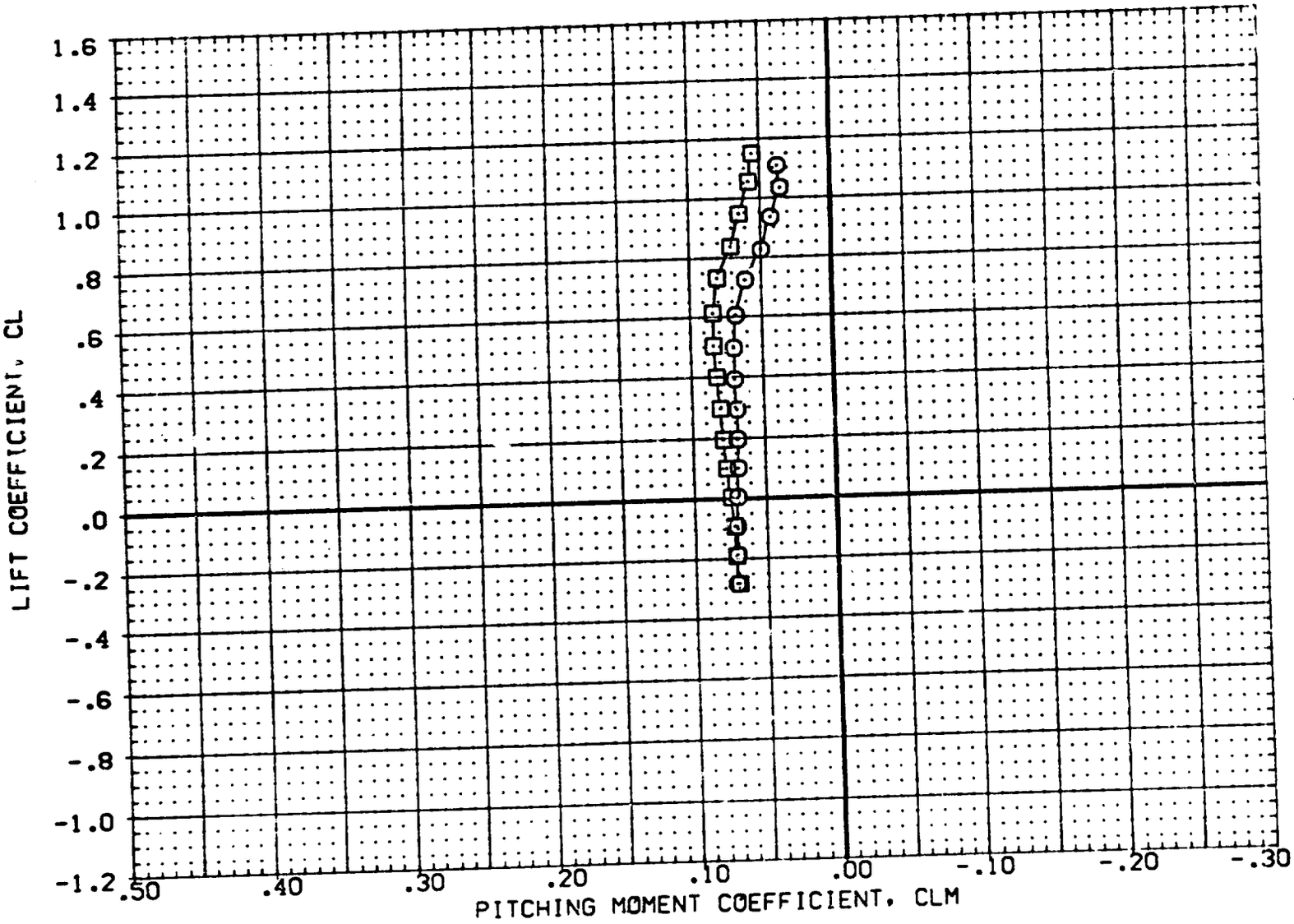


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				CANARD	ELEVON	BOFLAP	SPLBRK
[IDP001]	○	OA21	B17C7	M4F5	W107E23V7R6X9		.000	-18.000	55.000
[IDP072]	□	OA21	B17C7	H2M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

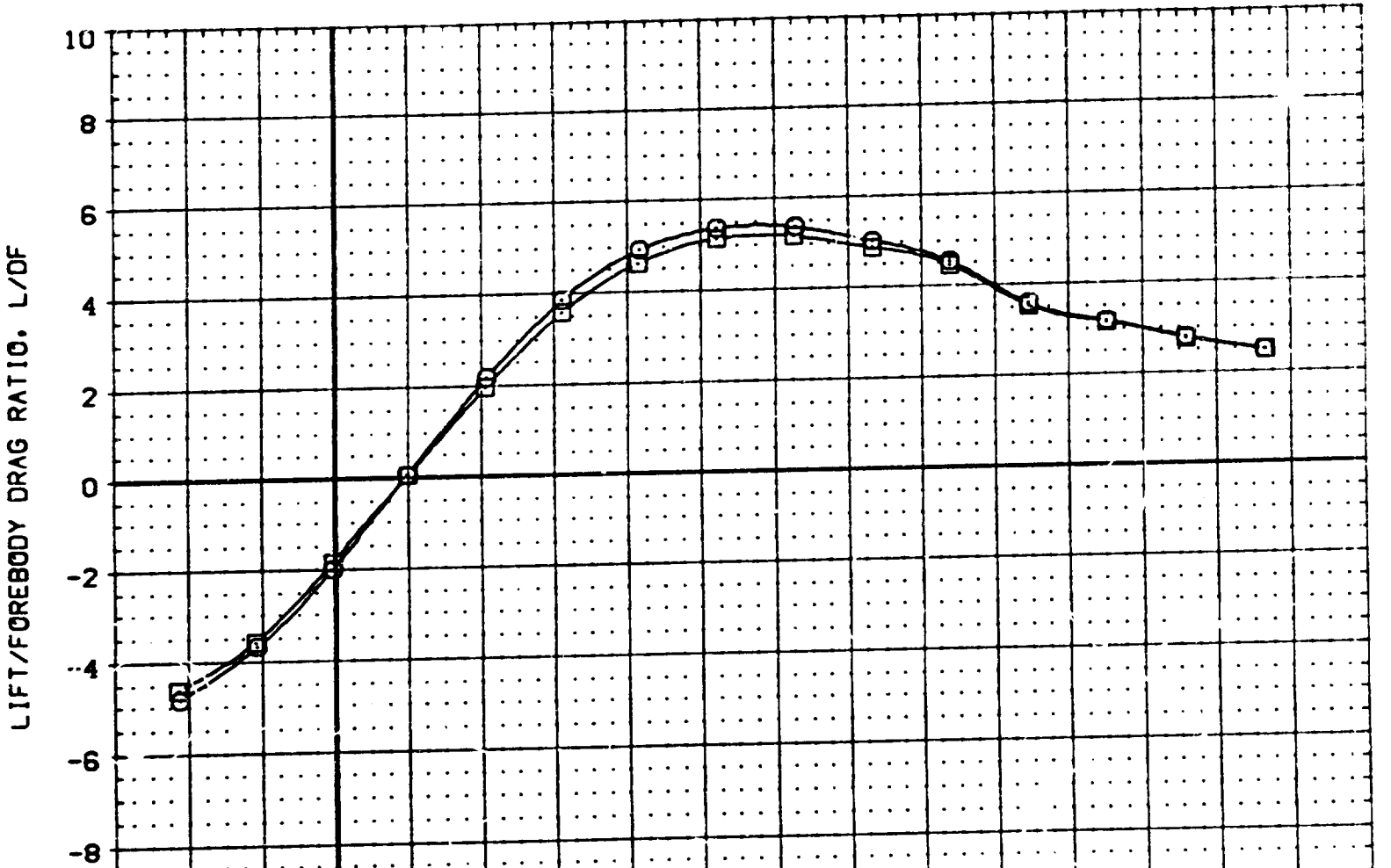


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	0A21	B17C7	M4FS	W107E23V7R6X9
(1DP072)	□	0A21	B17C7	H2M4FS	W107E23V7R6X9

CANARD	ELEVON	BDFLAP	SPDBRK
	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

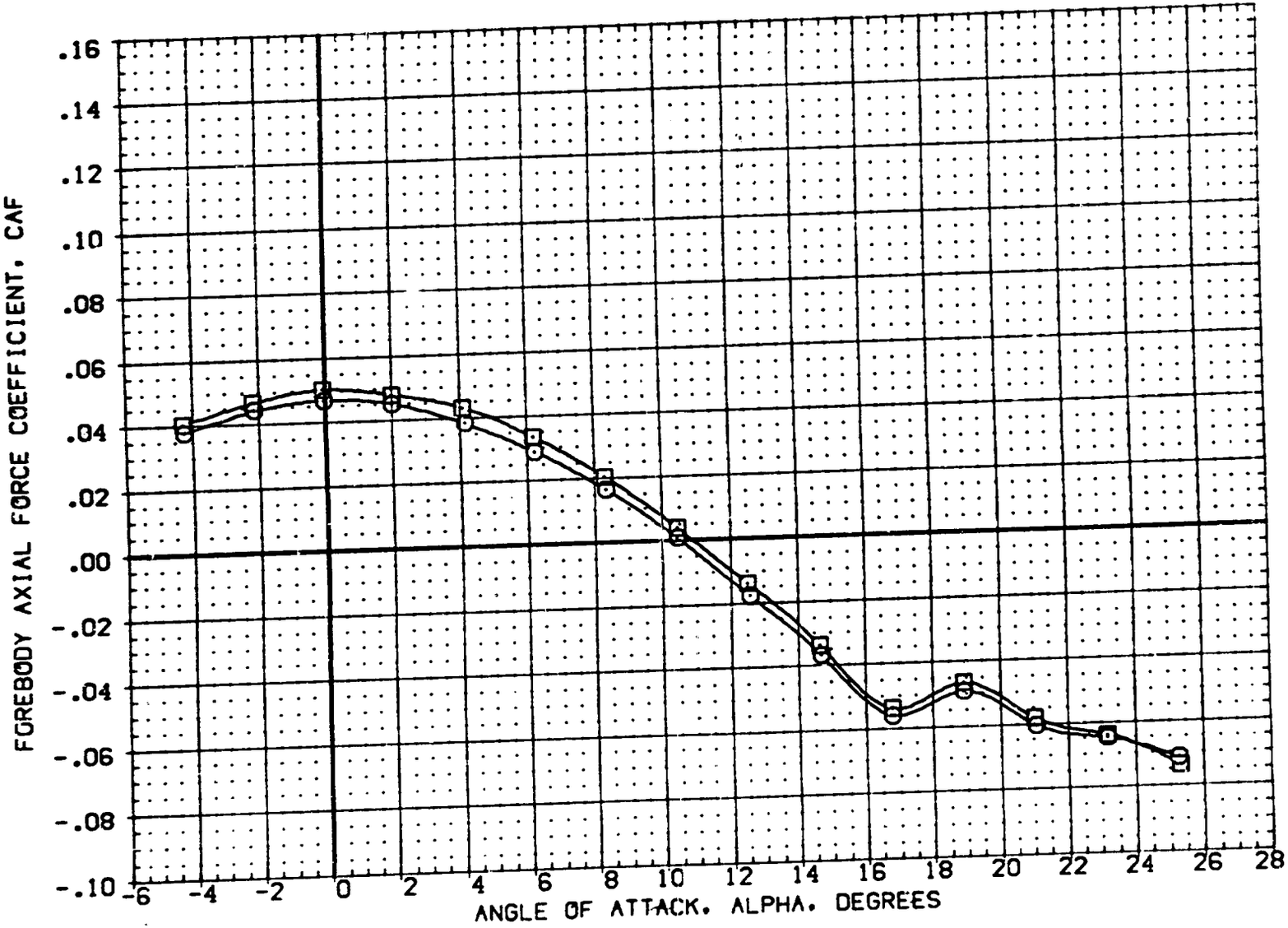


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP072)	□	0A21	B17C7	H2M4F5	W107E23V7R6X9

CANARD	ELEVON	BDFLAP	SPOBRK
	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

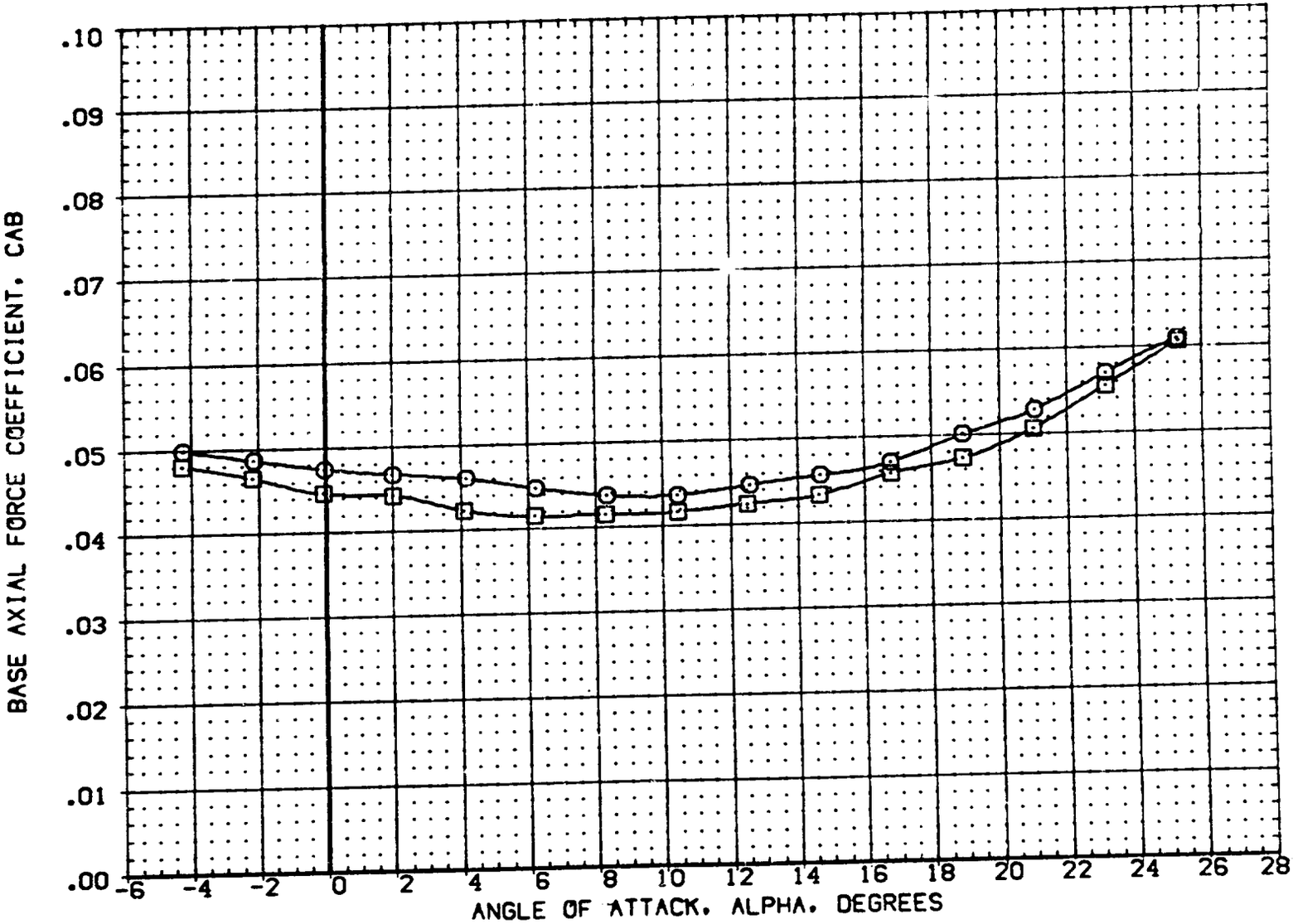


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CANARD	ELEVON	BOFLAP	SPOBRK
(1DP001)	○	0A21 B17C7 M4F5 W107E23V7R6X9		.000	-18.000	55.000
(1DP072)	□	0A21 B17C7 H2M4F5 W107E23V7R6X9	.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

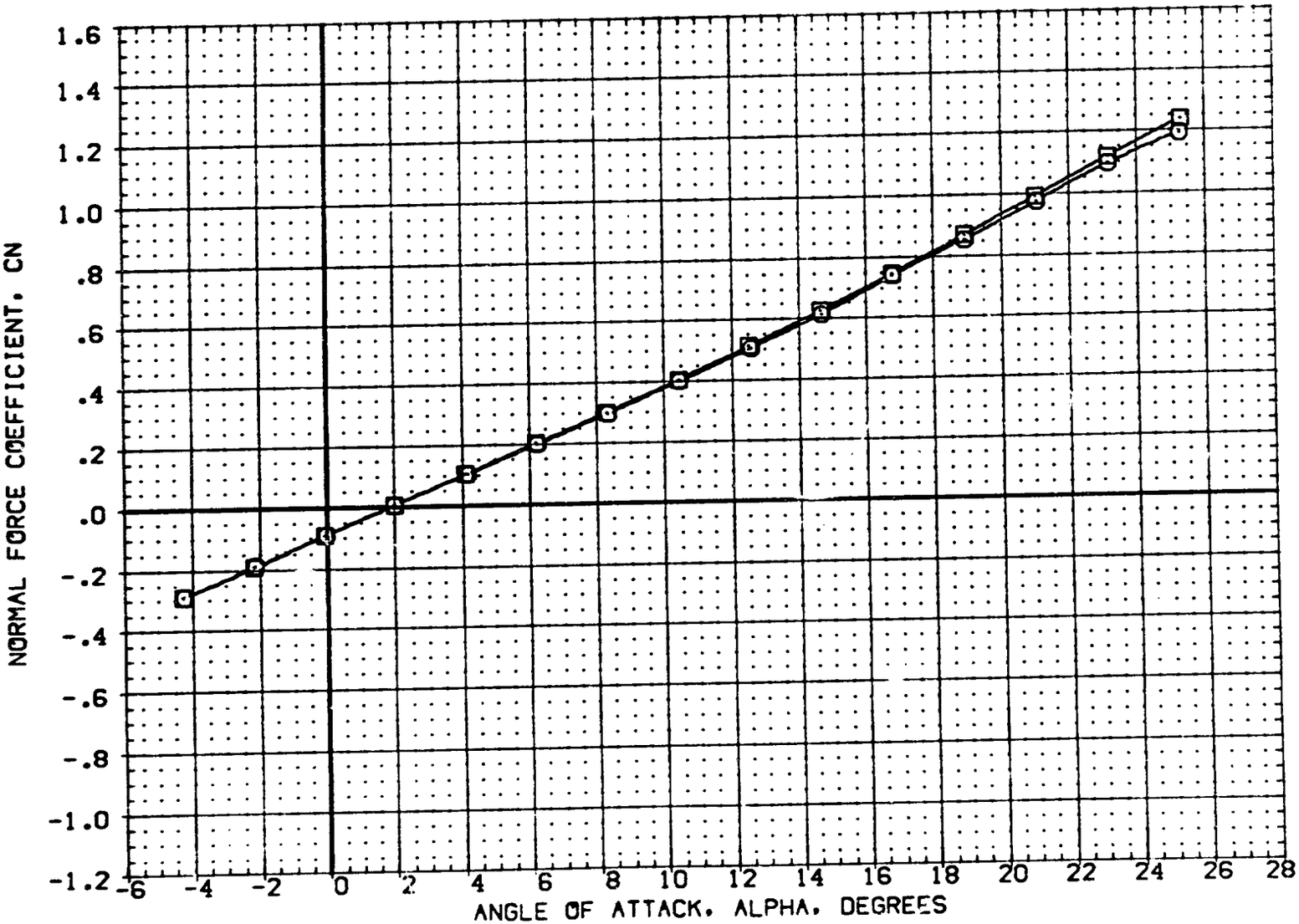


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP372)	□	0A21	B17C7	H2M4F5	W107E23V7R6X9

CANARD	ELEVON	BOFLAP	SPOBRK
	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

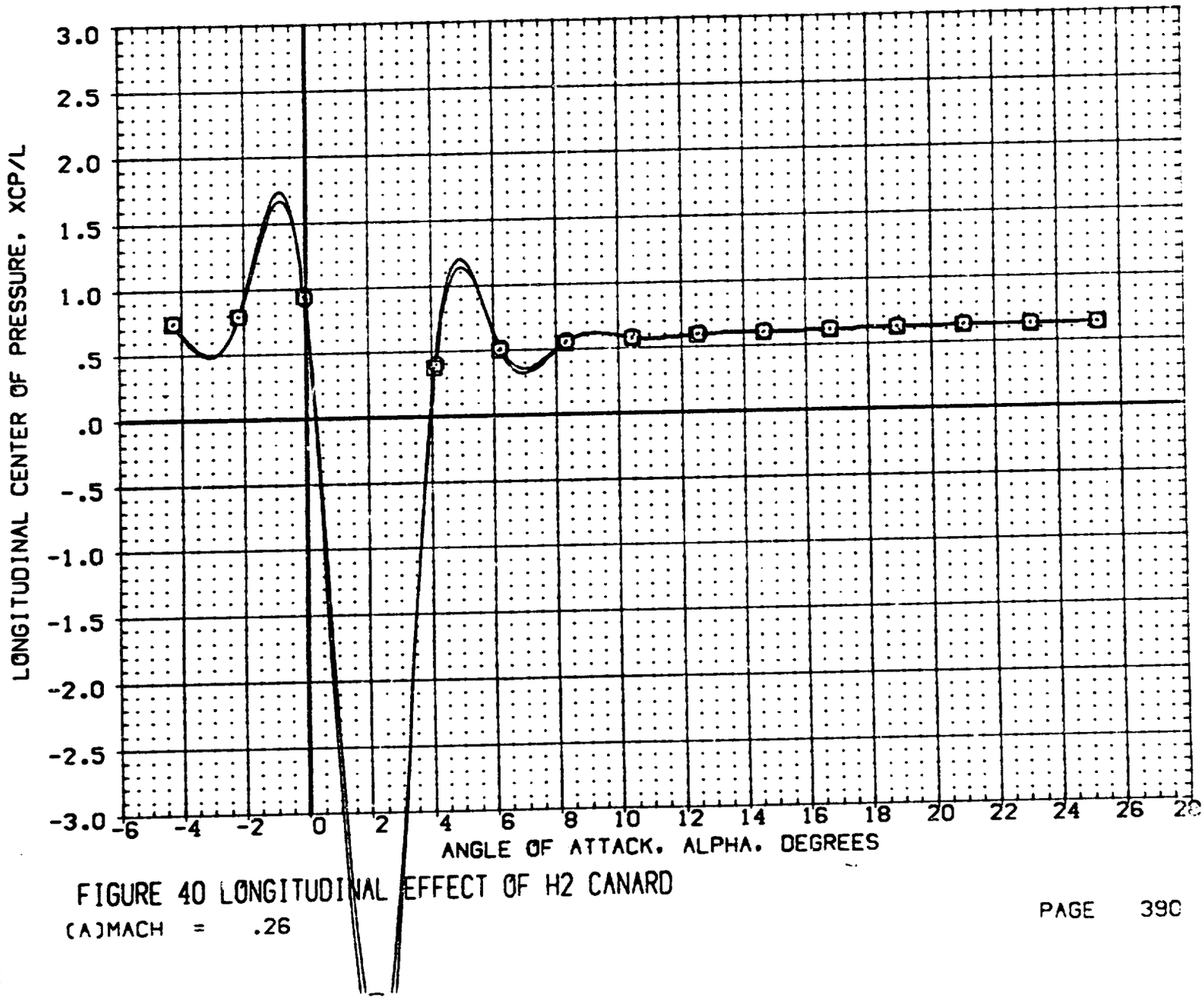


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				CANARD	ELEVON	BOFLAP	SPDBRK
(1DP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9		.000	-18.000	55.000
(1DP072)	□	0A21	B17C7	H2M4F5	W107E23V7R6X9	.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

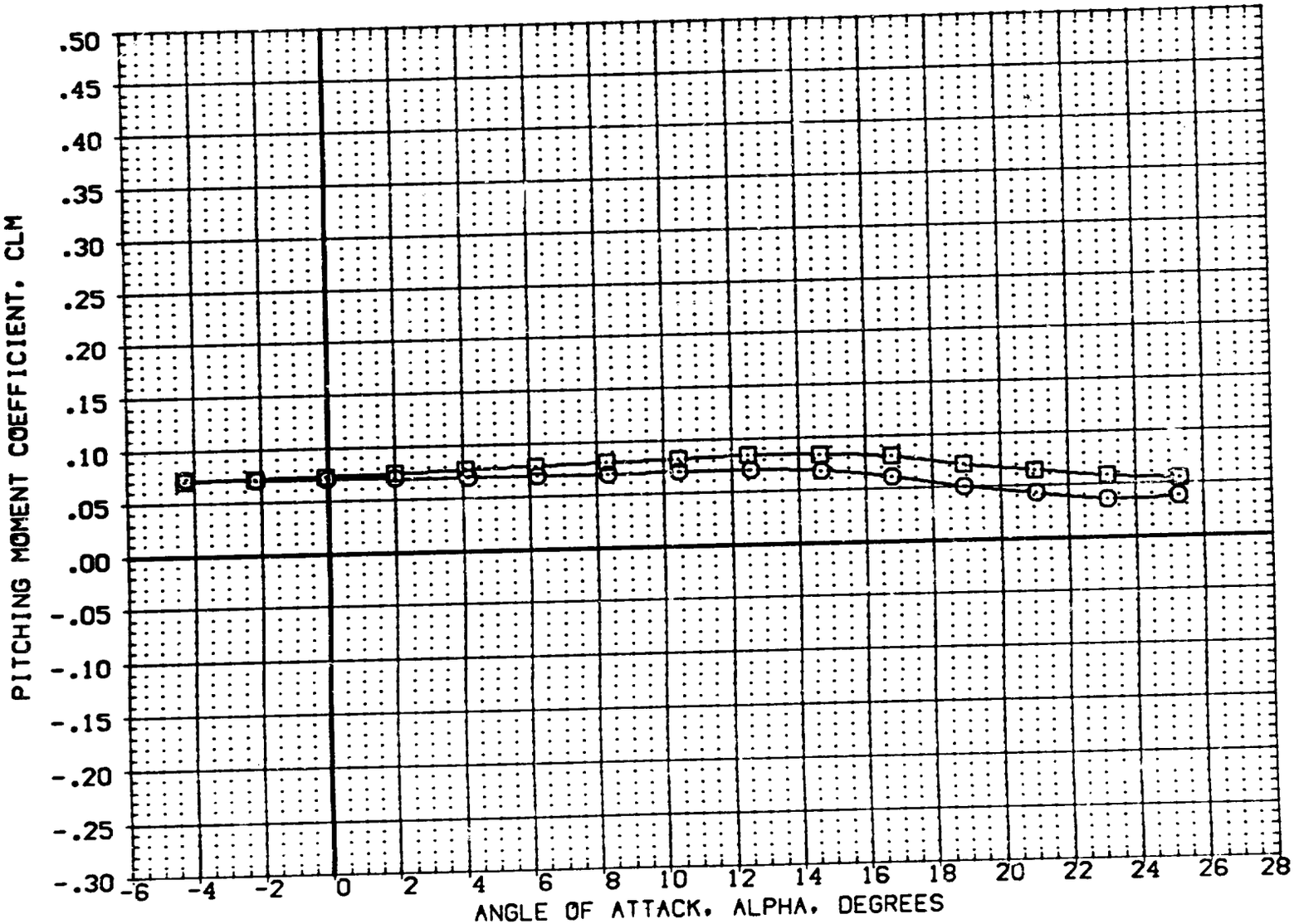


FIGURE 40 LONGITUDINAL EFFECT OF H2 CANARD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP009)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

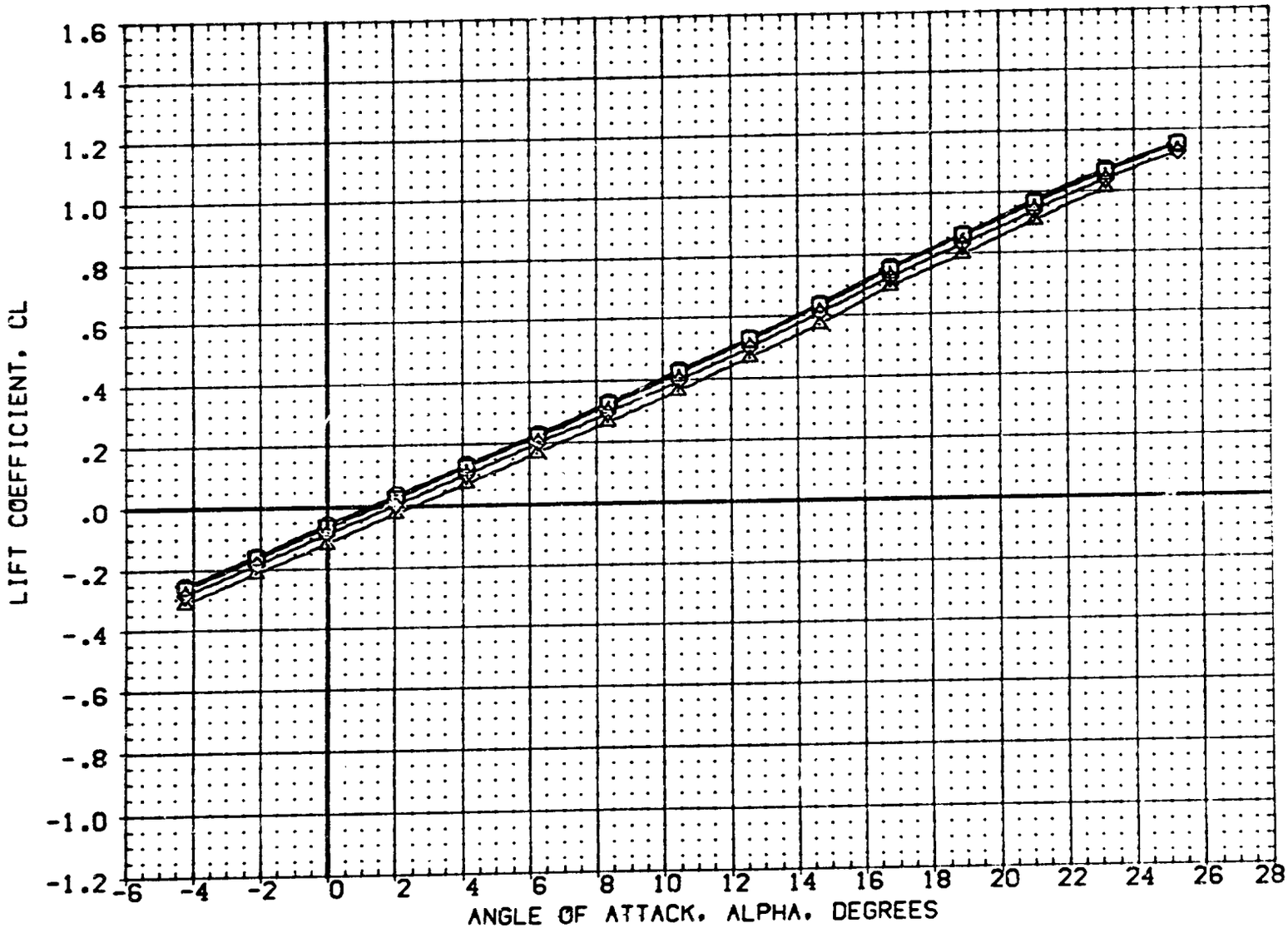


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[IDP009]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP022]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP048]	◇	0A21	B17C7	M4F5	W107E23V7R6X9
[IDP035]	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

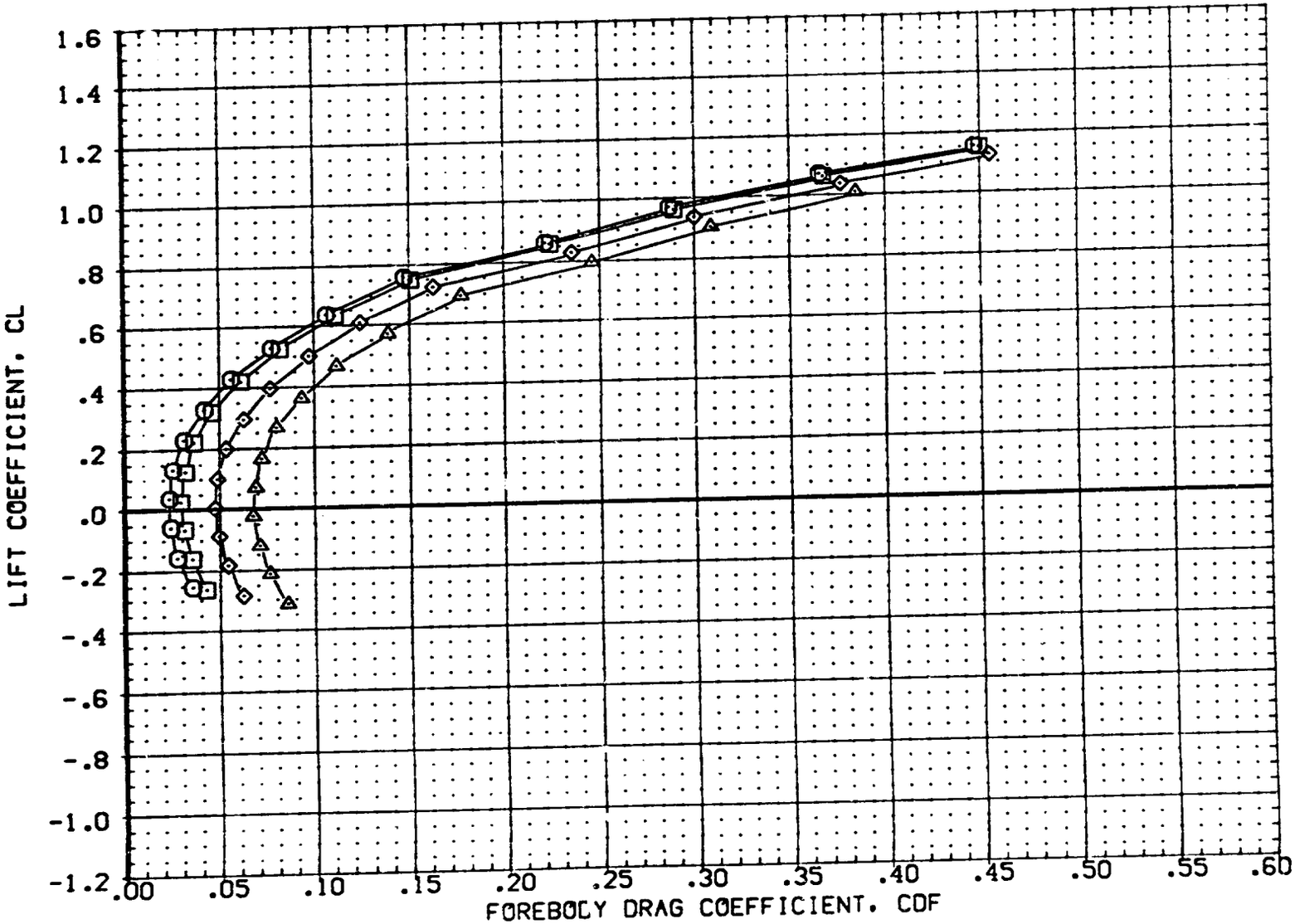


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP009)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

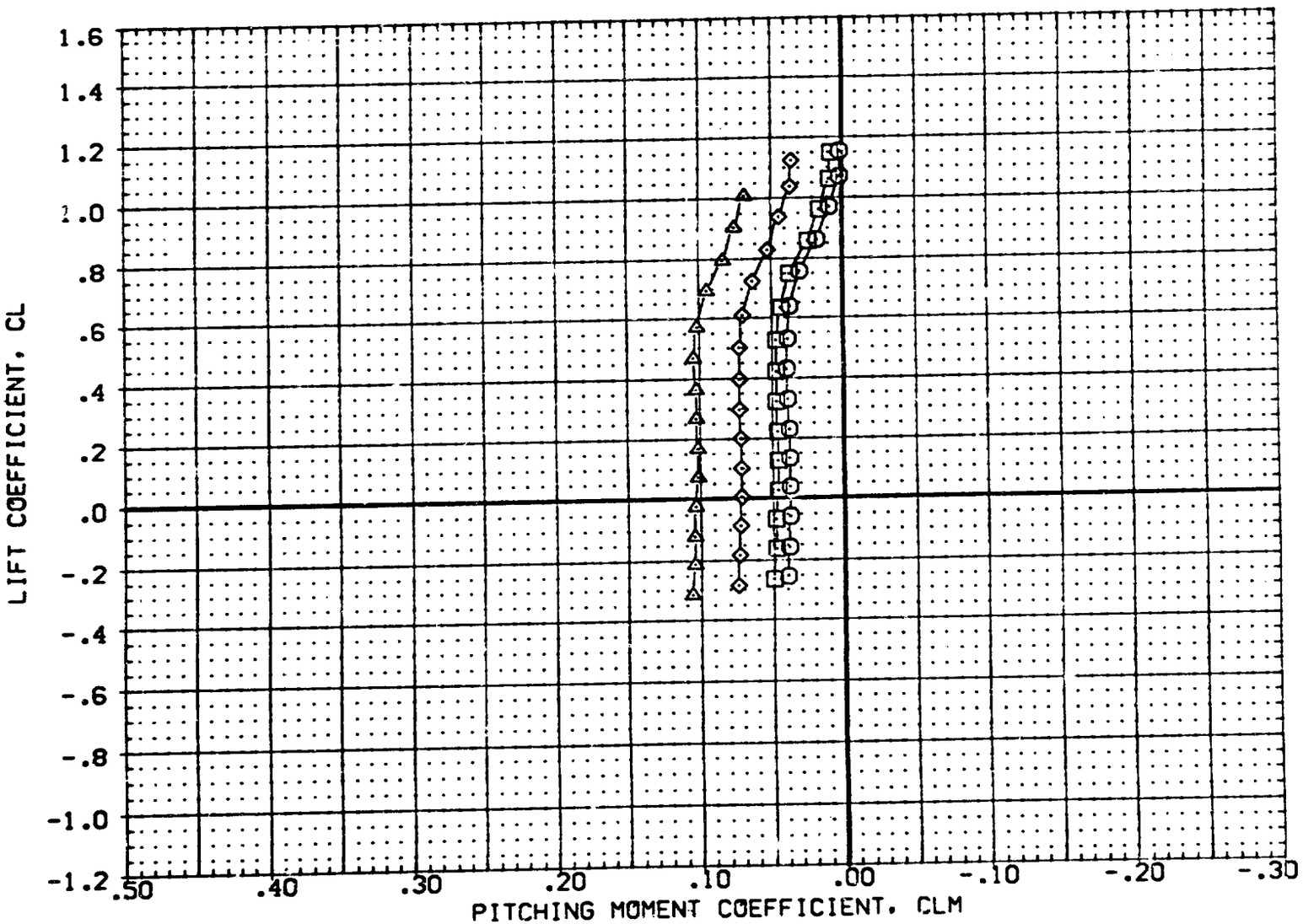


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP009)	○	0A21	B17C7	M4F3	W107E23V7R6X9
(IDP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

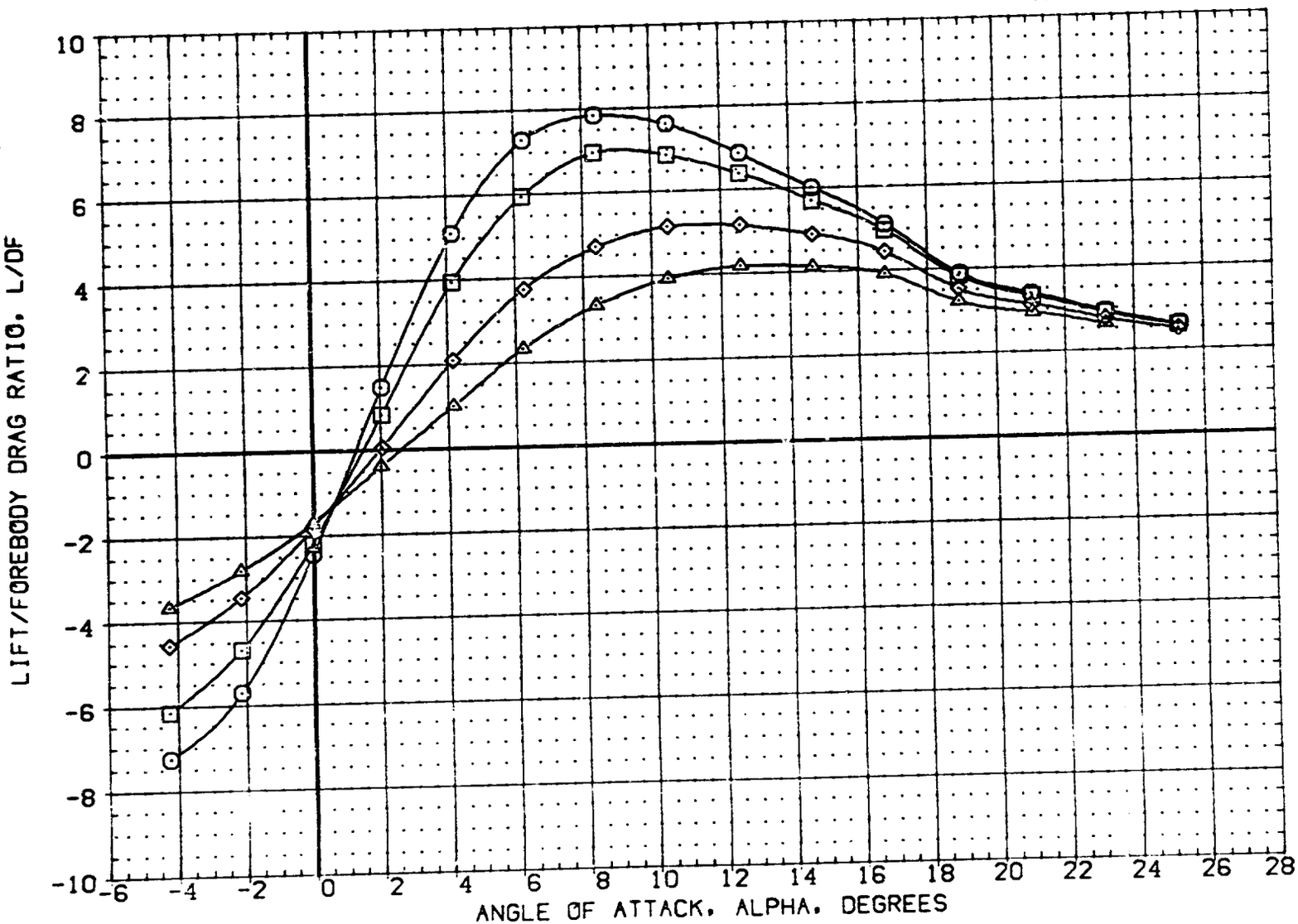


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP009)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

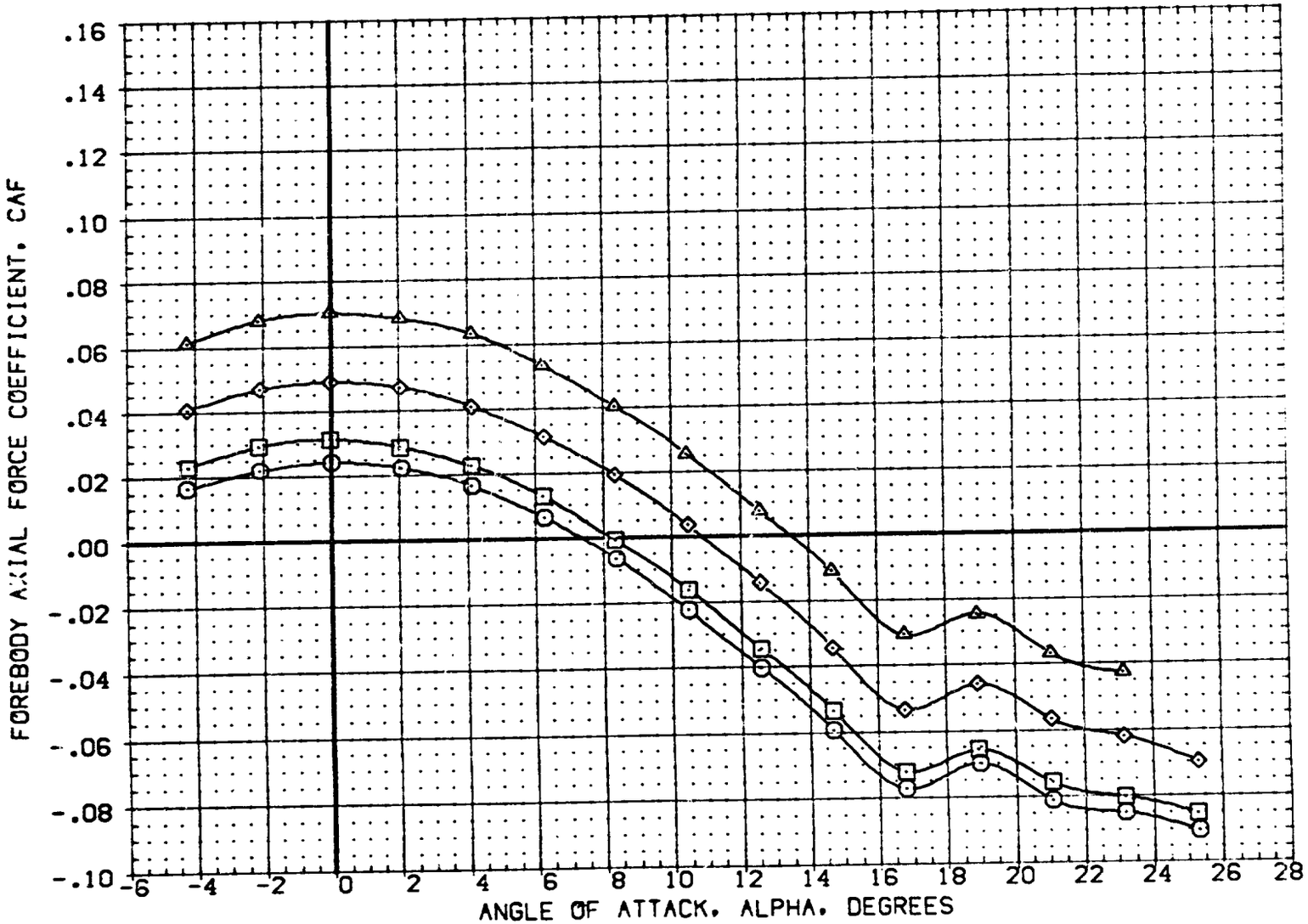


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(DP009)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(DP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(DP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(DP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2009	INCHES
SCALE	.0405	SCALE

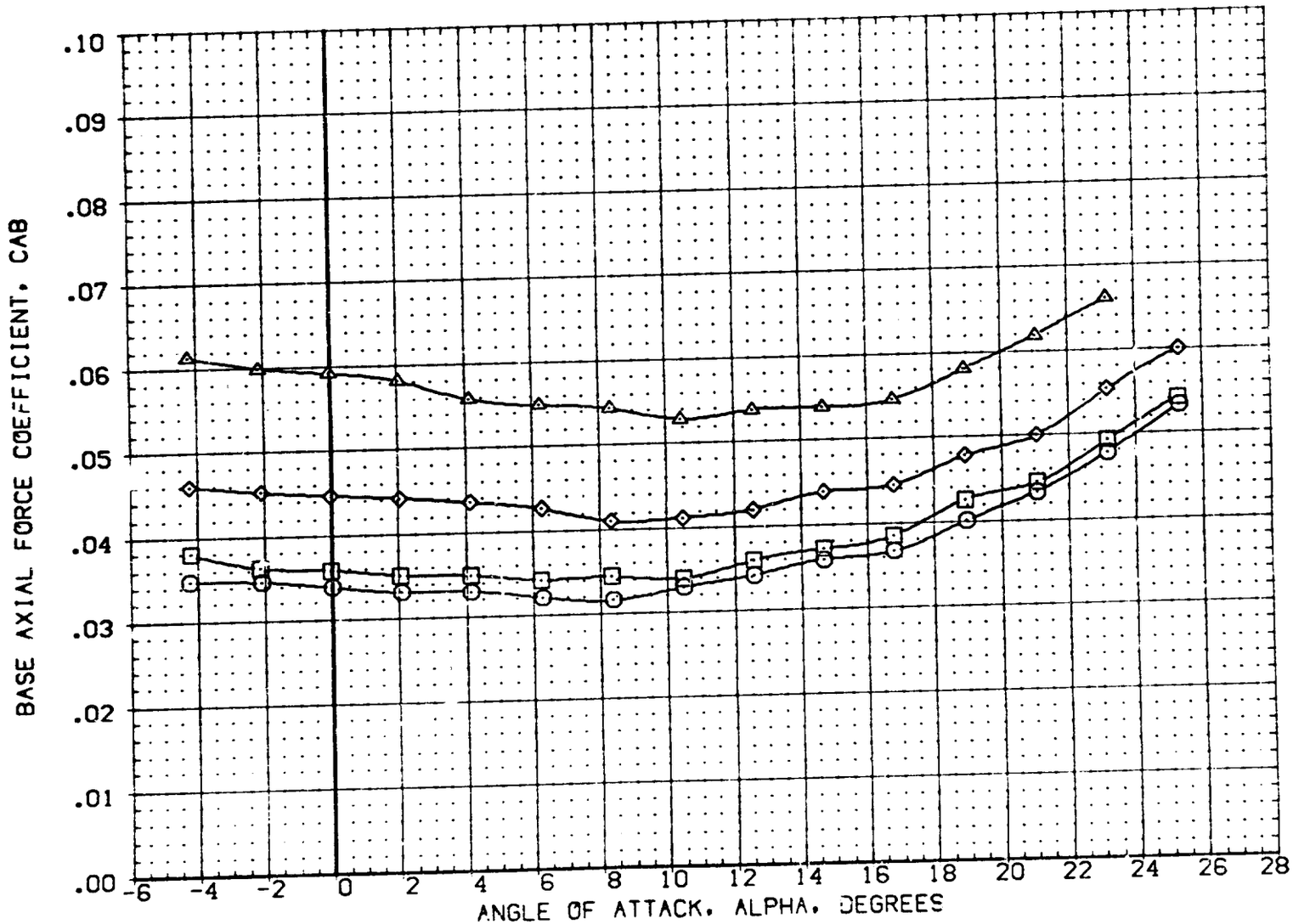


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

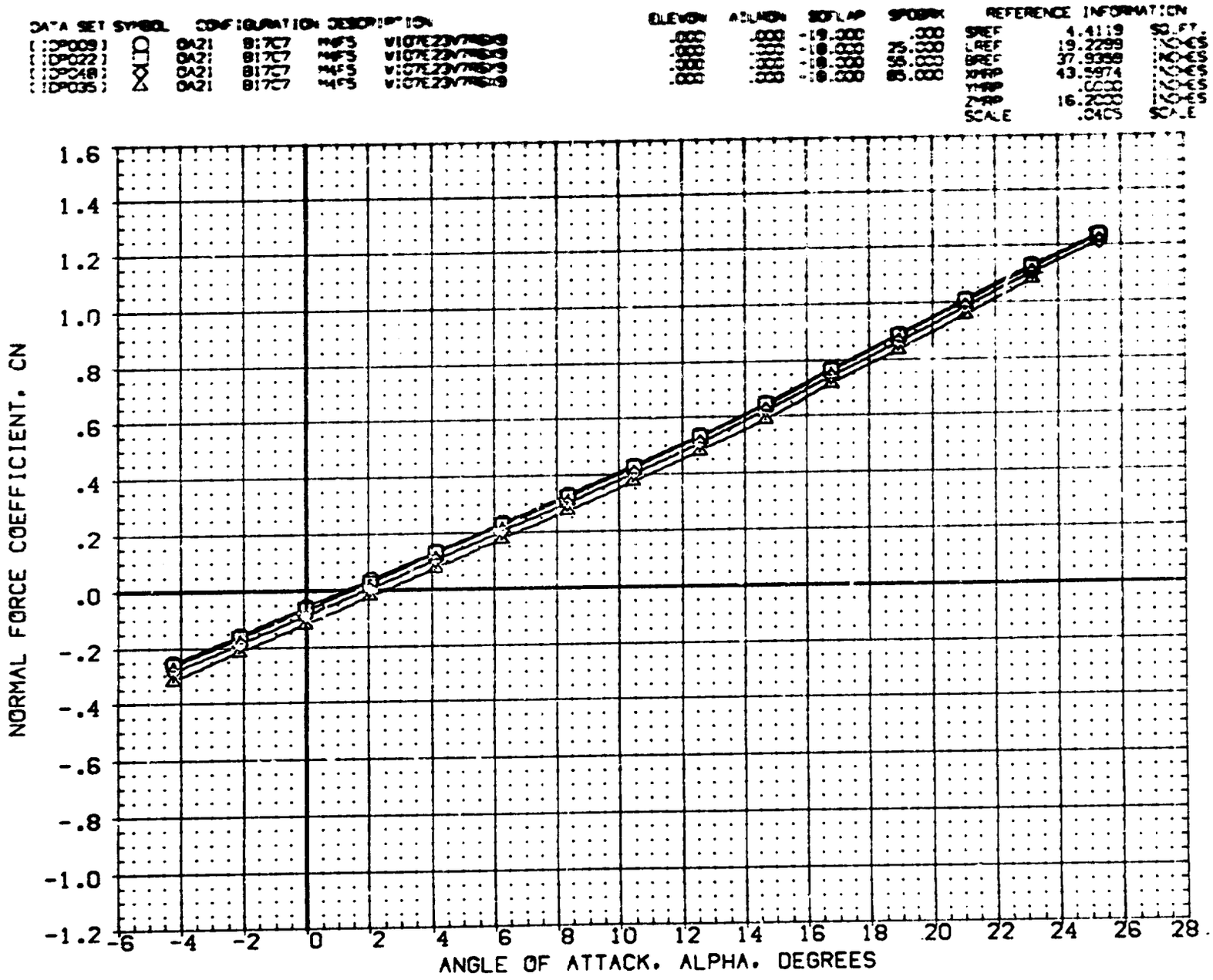


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1)P009	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1)P022	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1)P048	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1)P035	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

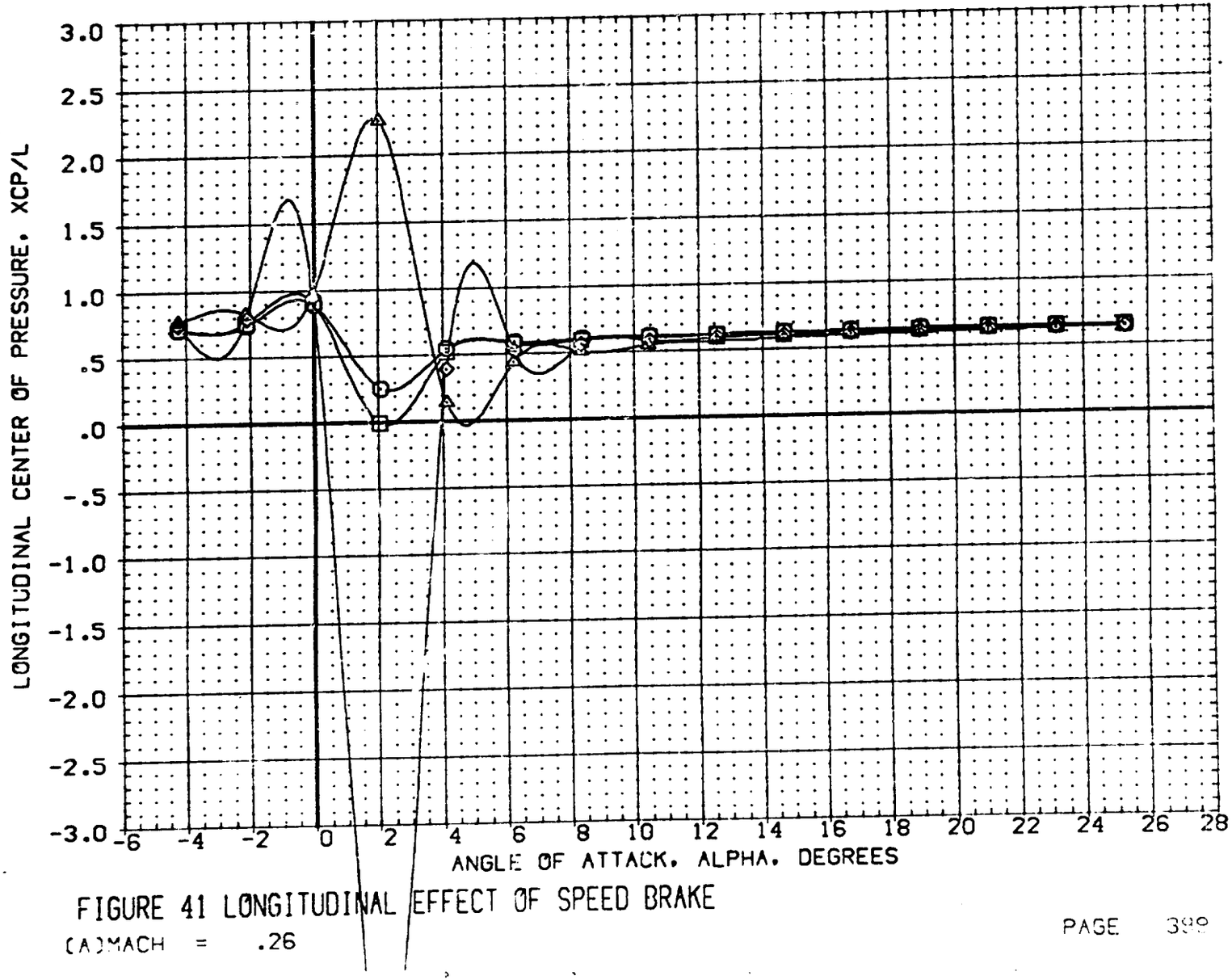


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP009)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP022)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP048)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP035)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	.000
.000	.000	-18.000	25.000
.000	.000	-18.000	55.000
.000	.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

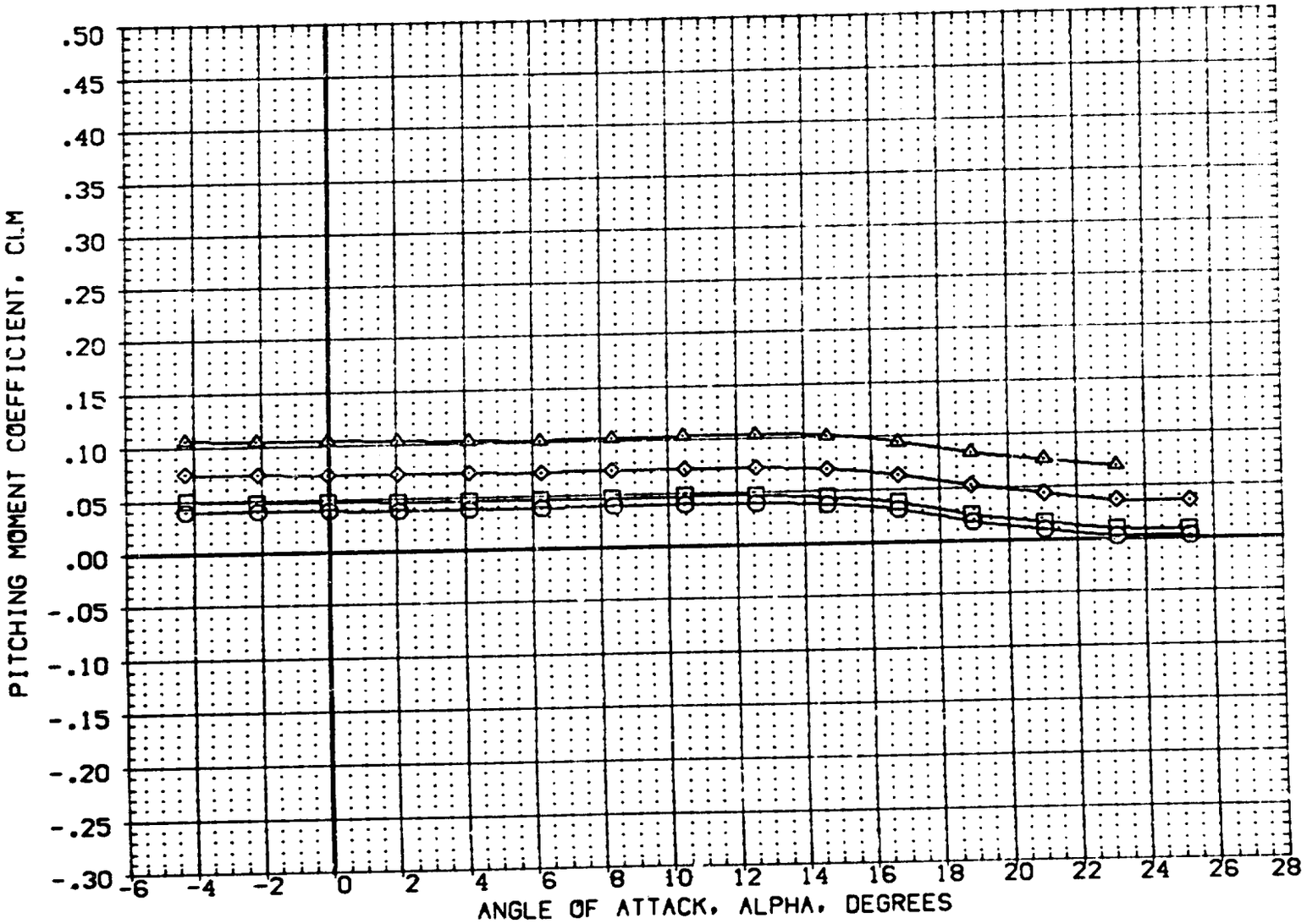


FIGURE 41 LONGITUDINAL EFFECT OF SPEED BRAKE

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP005)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP007)	⊠	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP008)	⧖	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

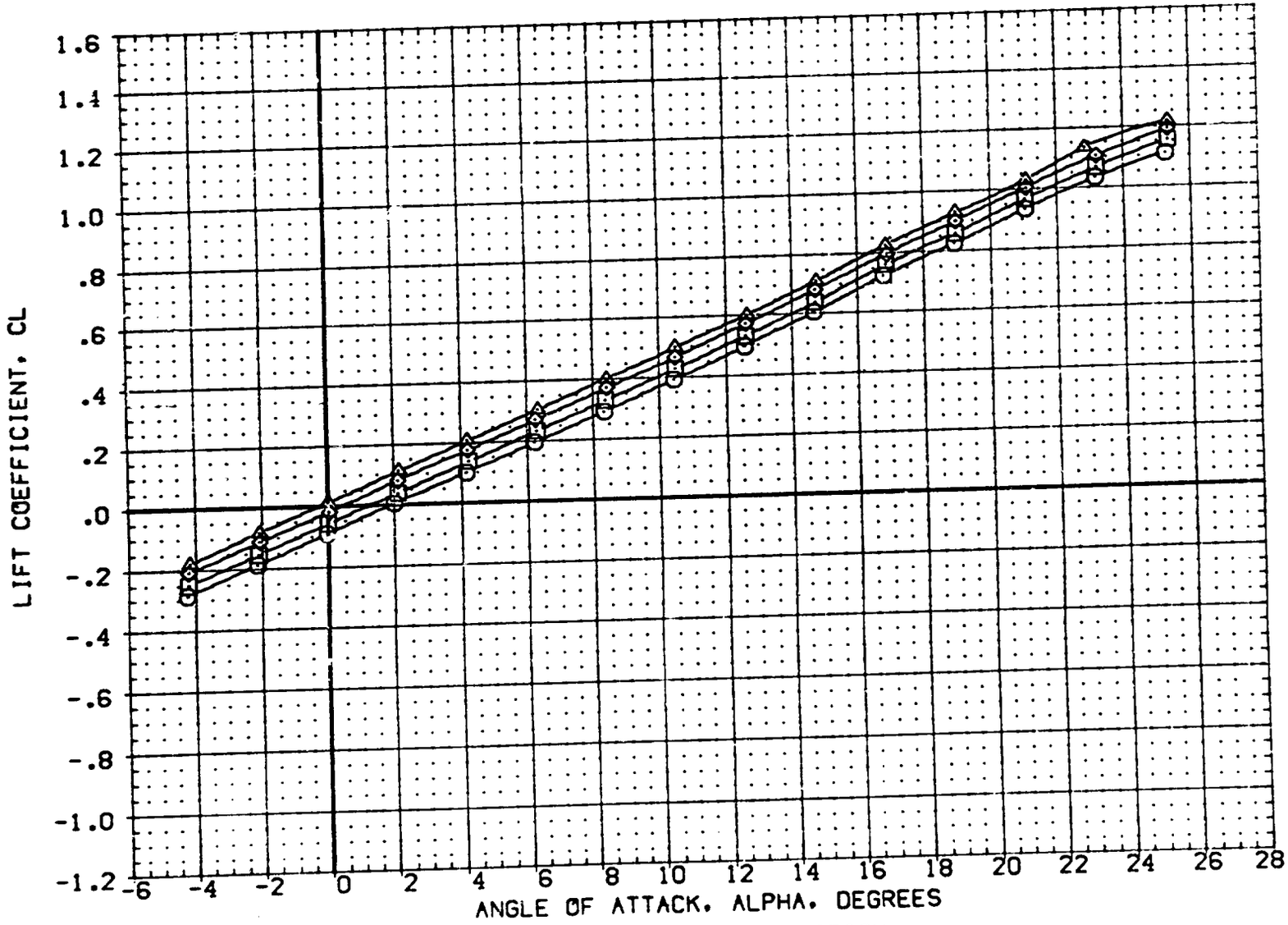


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP001)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP006)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP007)	◇	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP008)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

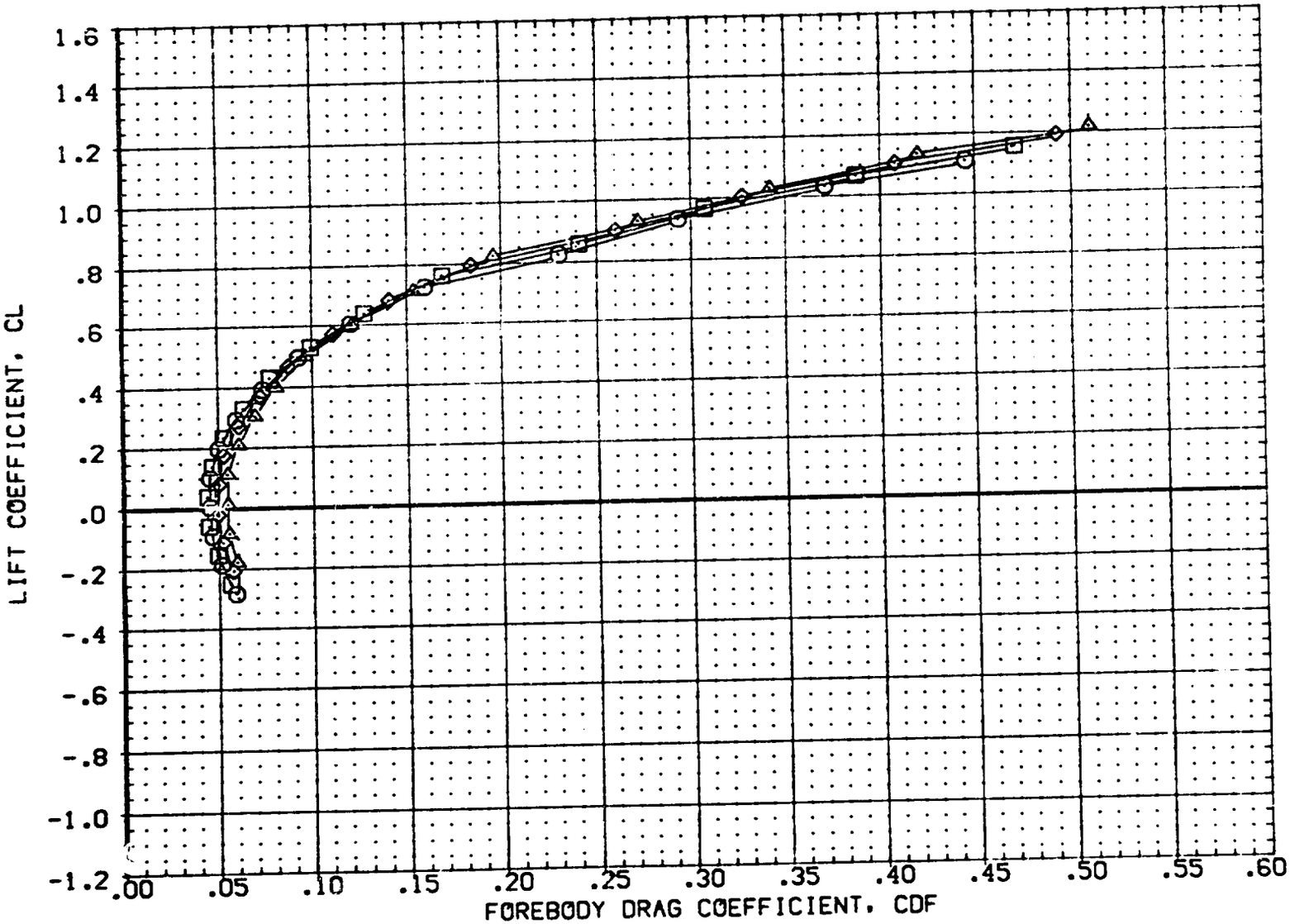


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP001)	○	OA21	B17C7	M4F5	W107E23V7R6X9
(IDP006)	□	OA21	B17C7	M4F5	W107E23V7R6X9
(IDP007)	◇	OA21	B17C7	M4F5	W107E23V7R6X9
(IDP008)	△	OA21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

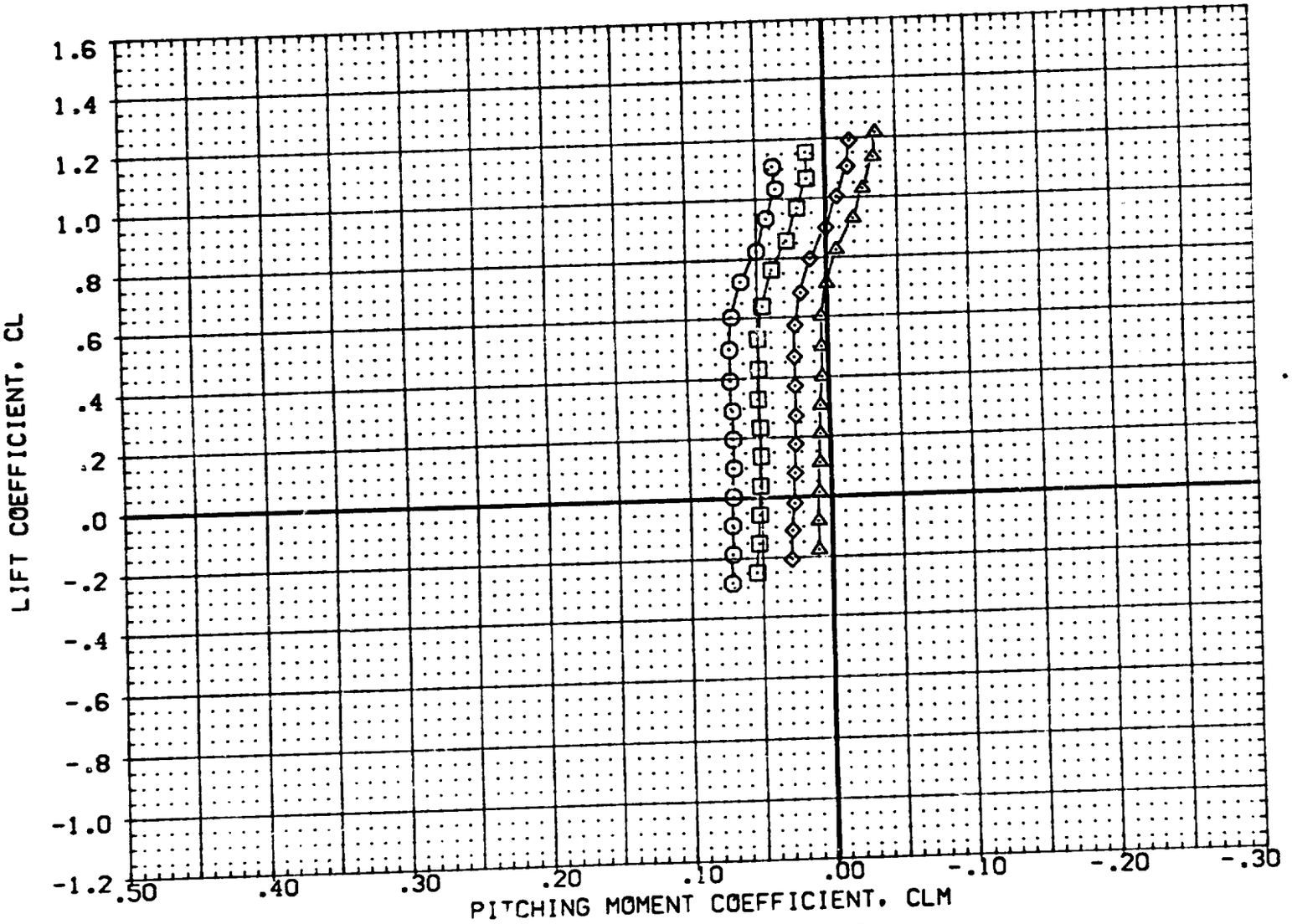


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	OA21	B17C7	M4F5	W107E23V7R6X9
(1DP006)	□	OA21	B17C7	M4F5	W107E23V7R6X9
(1DP007)	◇	OA21	B17C7	M4F5	W107E23V7R6X9
(1DP008)	△	OA21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

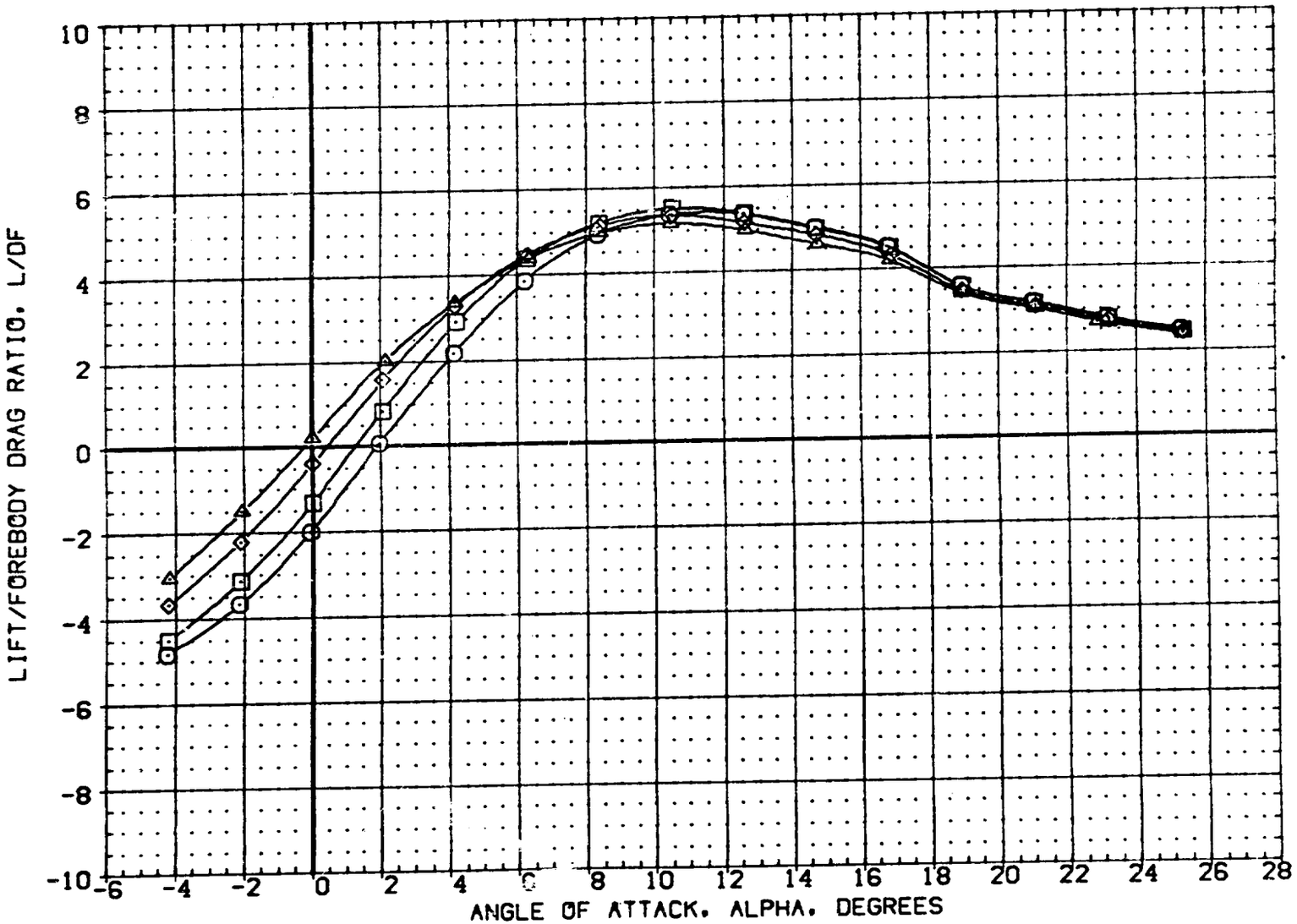


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[1DP001]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[1DP006]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[1DP007]	◇	0A21	B17C7	M4F5	W107E23V7R6X9
[1DP008]	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

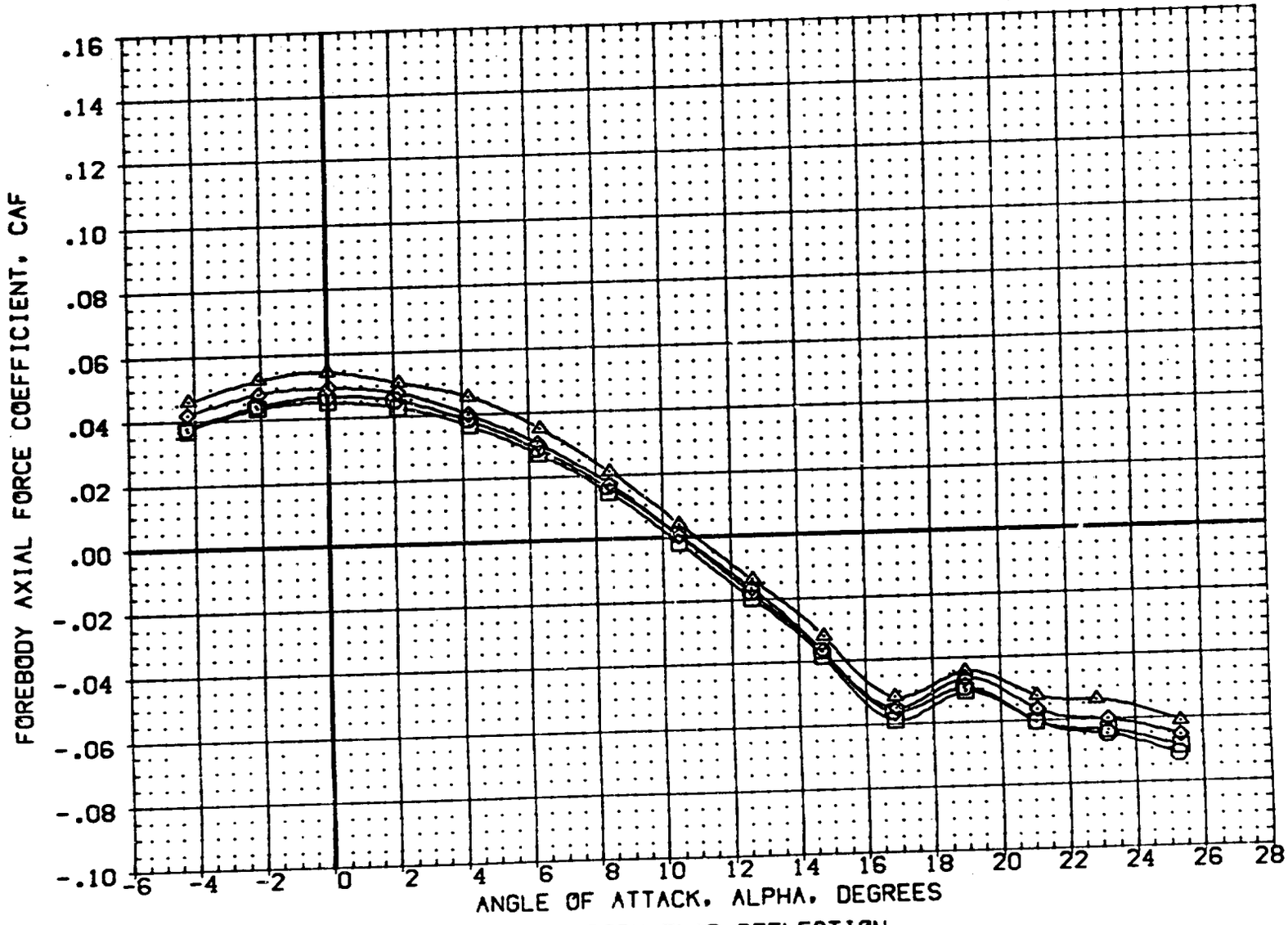


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP001)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP006)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP007)	◇	0A21	B17C7	M4F5	V107E23V7R6X9
(IDP008)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-10.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

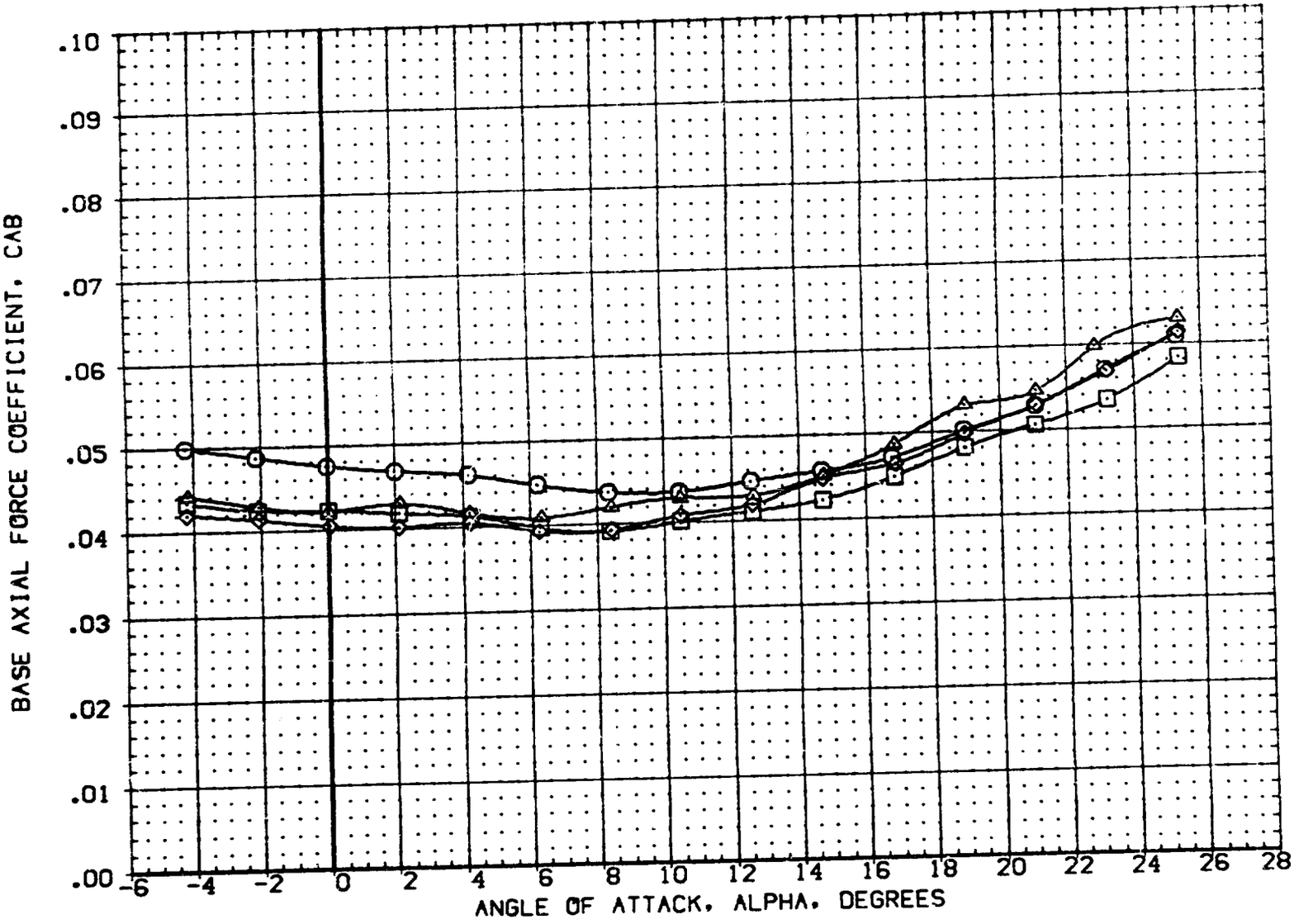


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP006)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP007)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(IDP008)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

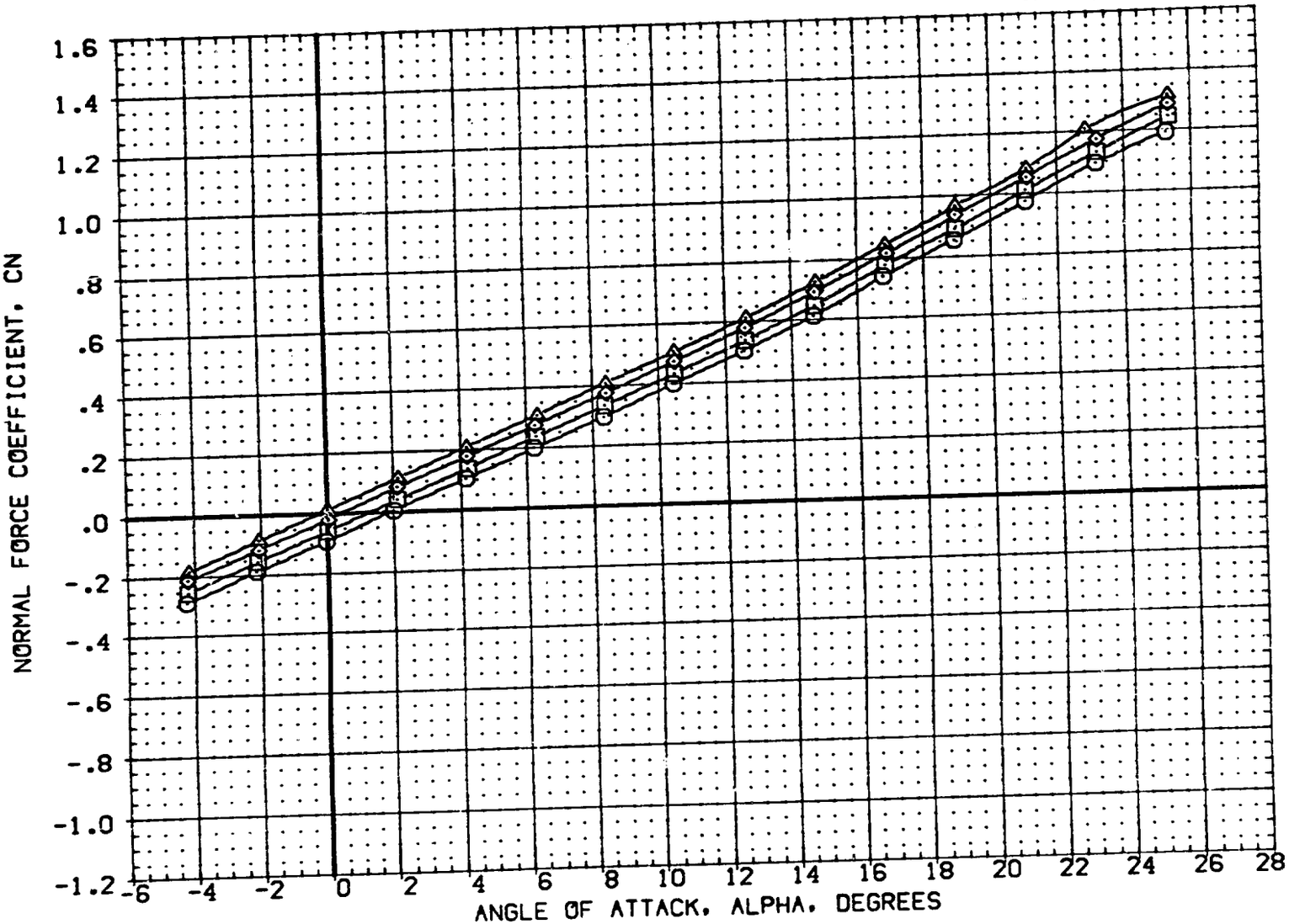


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(1DP001)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP006)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP007)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(1DP008)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	15.2293	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

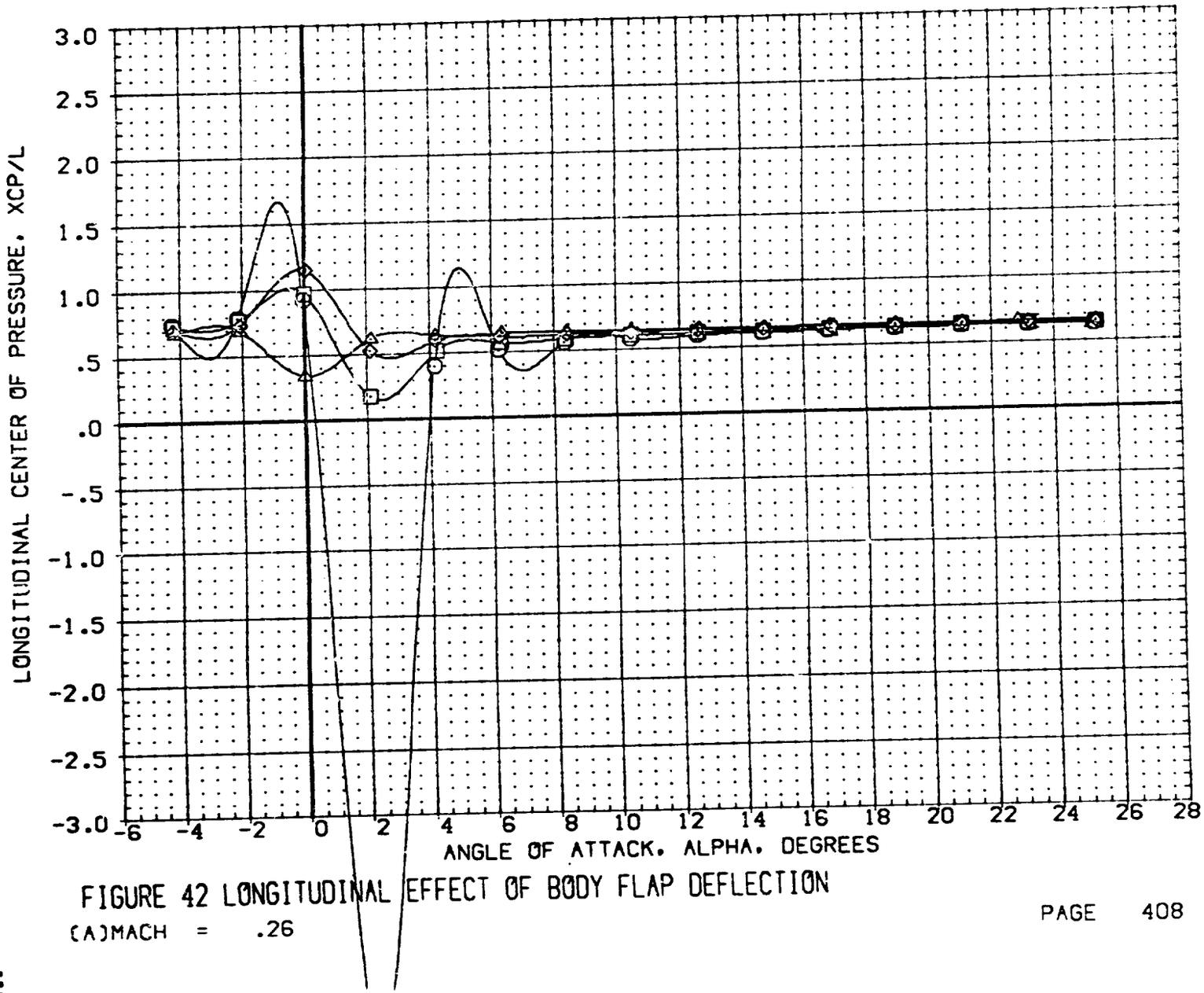


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(IDP001)	OA21	B17C7	M4F5	W107E23V7R6X9	
(IDP006)	OA21	B17C7	M4F5	W107E23V7R6X9	
(IDP007)	OA21	B17C7	M4F5	W107E23V7R6X9	
(IDP008)	OA21	B17C7	M4F5	W107E23V7R6X9	

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
.000	.000	.000	55.000
.000	.000	10.000	55.000
.000	.000	15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

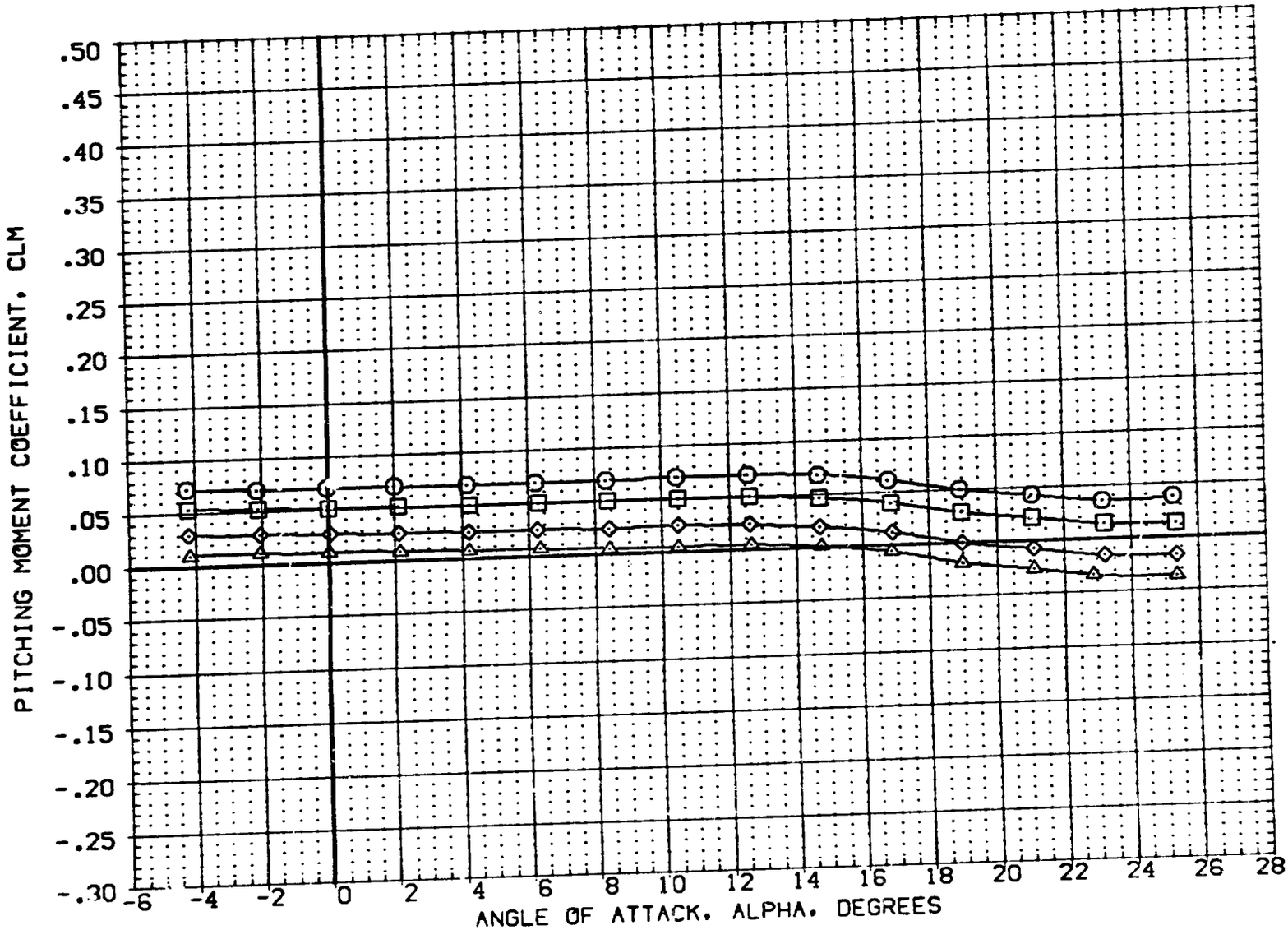


FIGURE 42 LONGITUDINAL EFFECT OF BODY FLAP DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(DP077)	○	0A21	B17C7	F5	W107E23V7R6X9
(DP001)	□	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

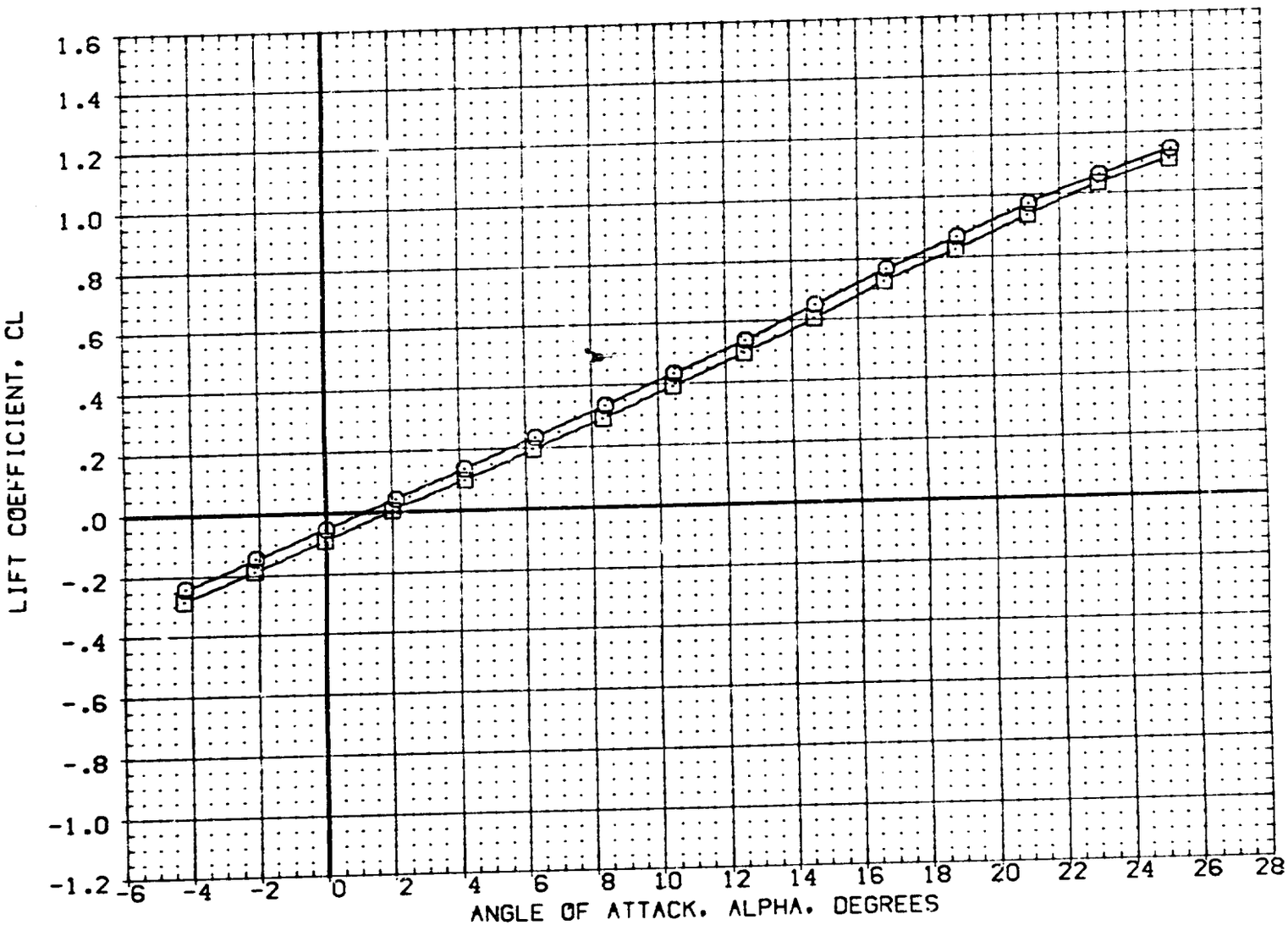


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP077) ○	0A21	B17C7	F5	W107E23V7R6X9
(IDP001) □	0A21	B17C7	M4F5	W107C23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.411[illegible]	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.597[illegible]	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

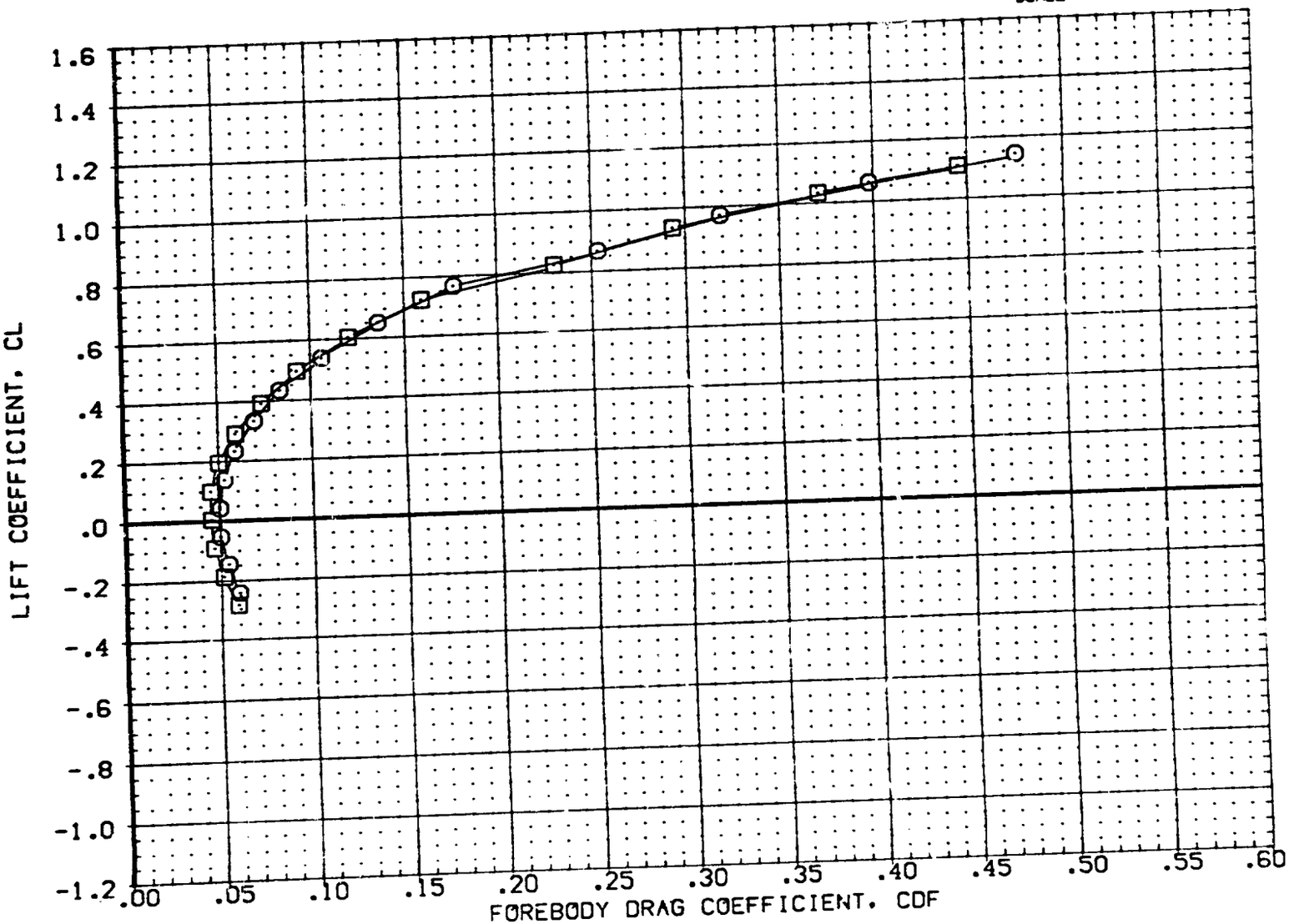


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP077)	□	0A21	B17C7	FS	W107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4FS	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5074	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0400	SCALE

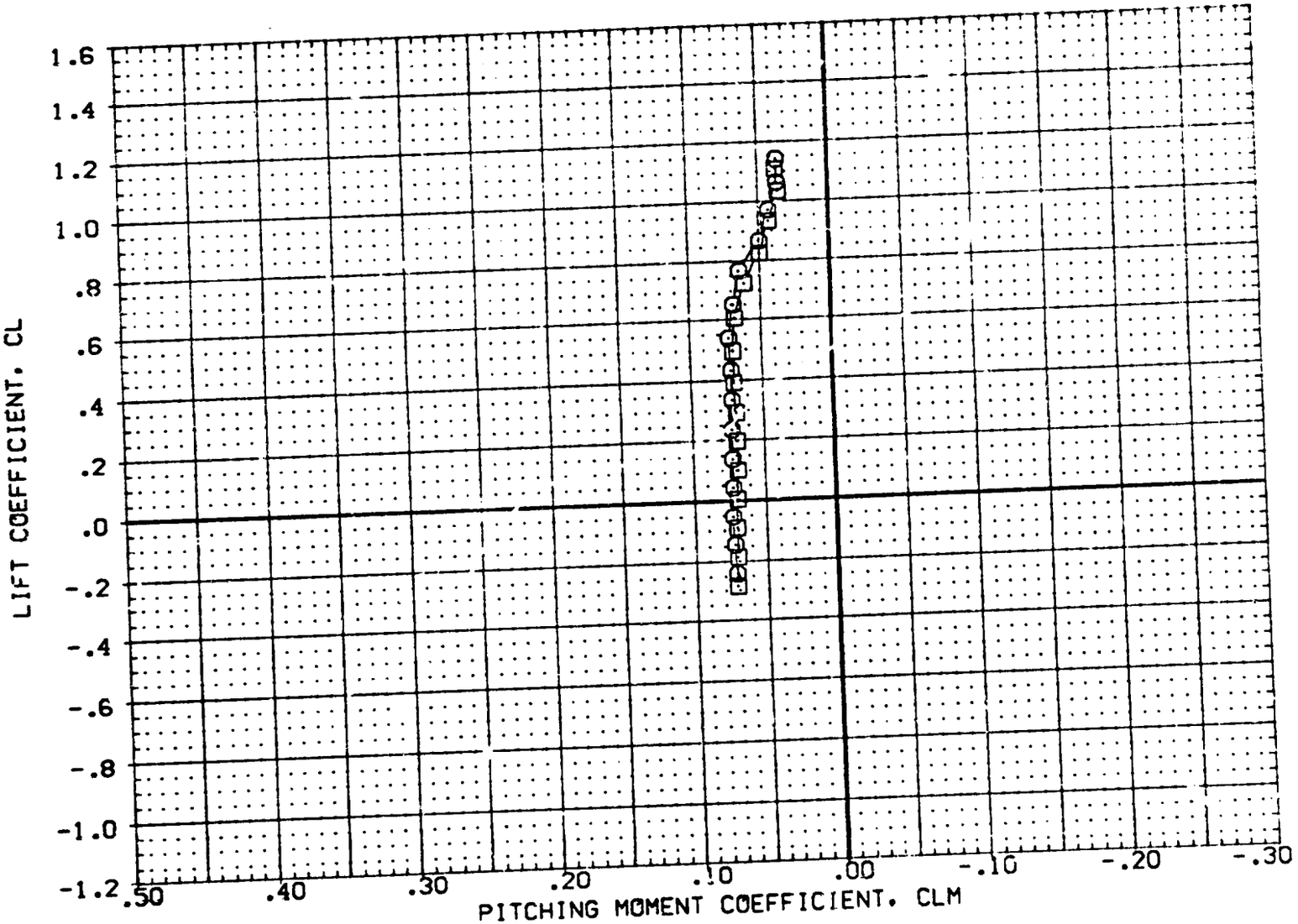


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP077)	○	0A21	B17C7	FS	W107E23V7R6X9
(IDF001)	□	0A21	B17C7	MASS	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

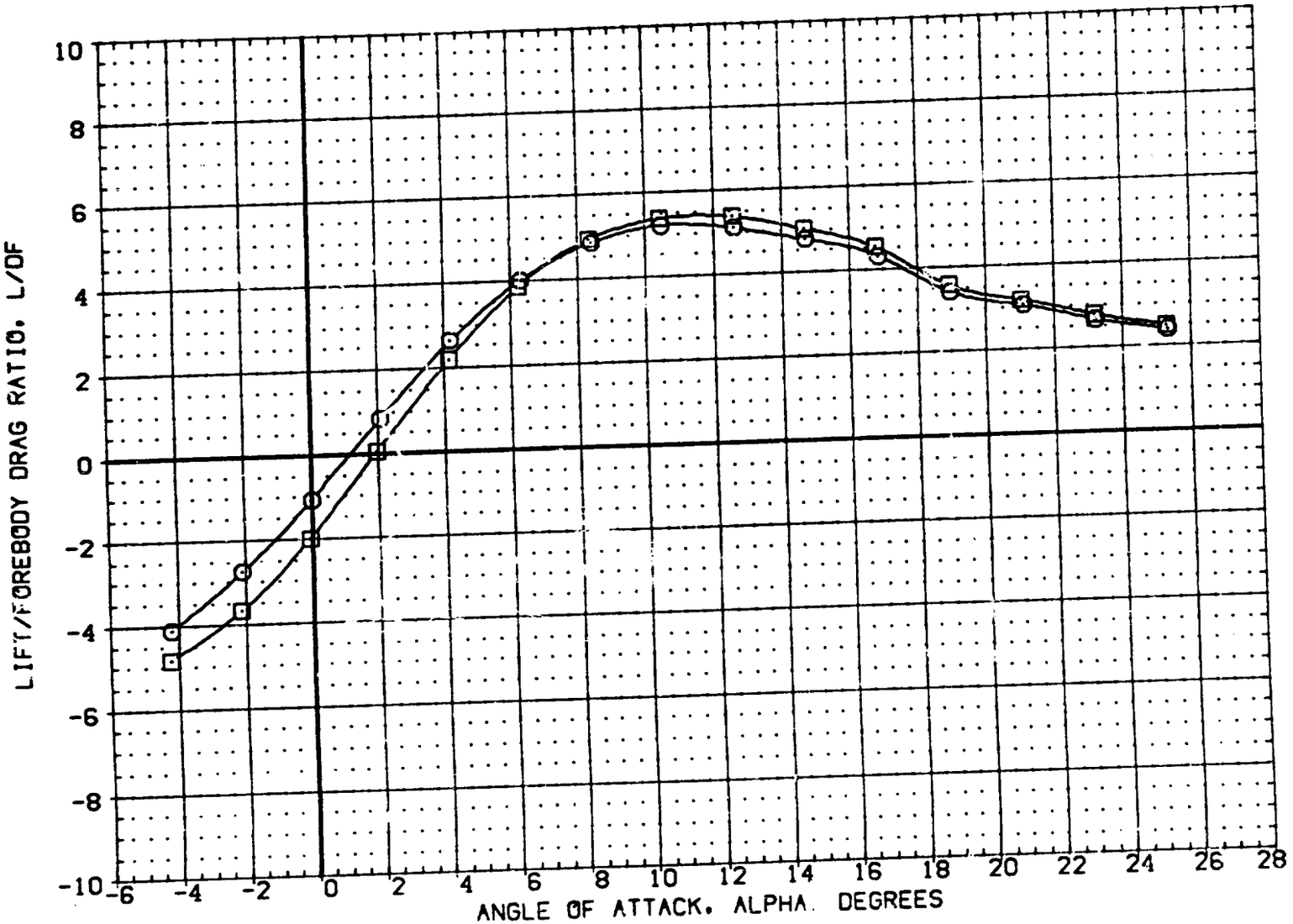


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP077)	○	0A21	B17C7	F5	W107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

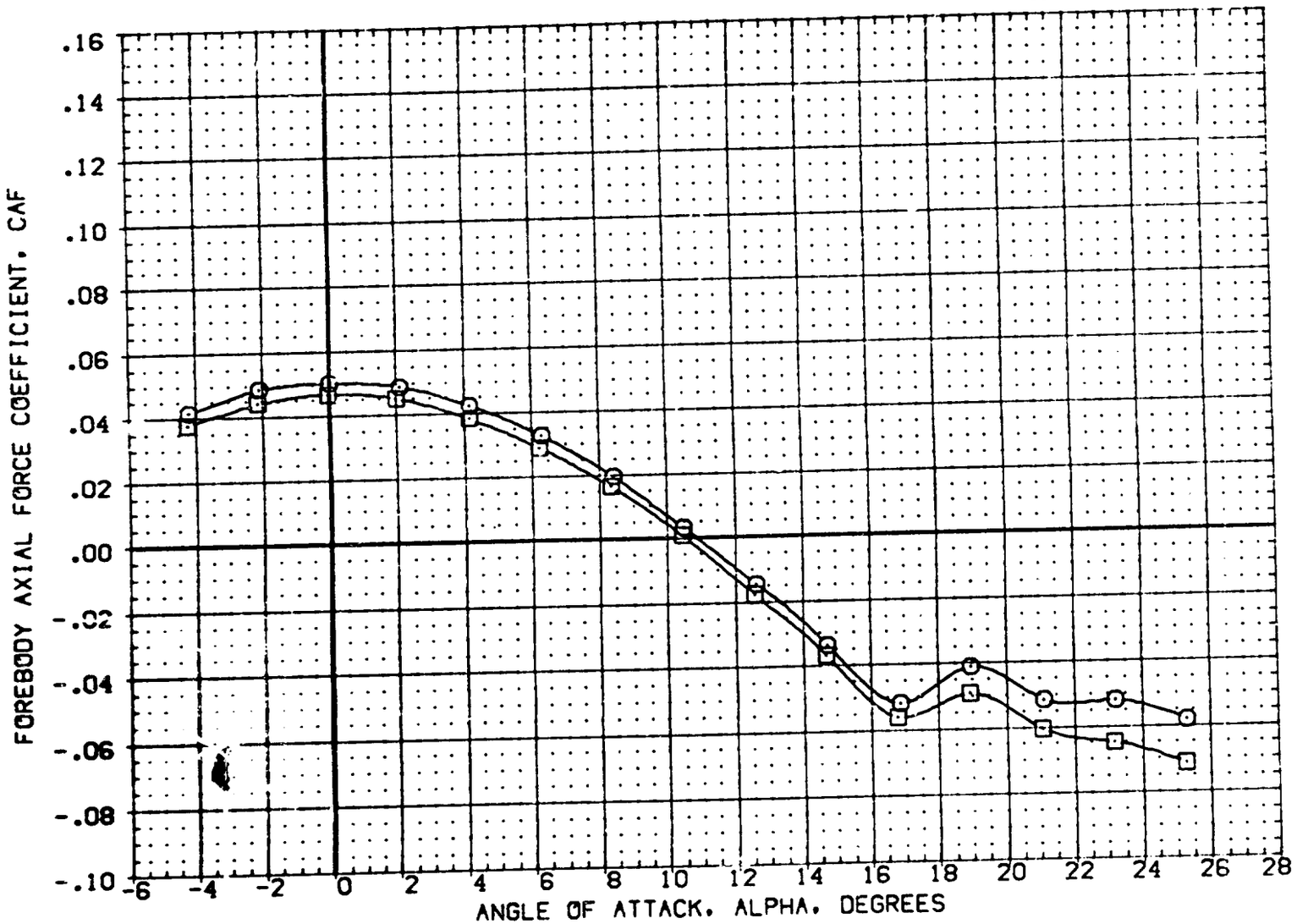


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(IDP077)	○	0A21	B17C7	F5	W107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

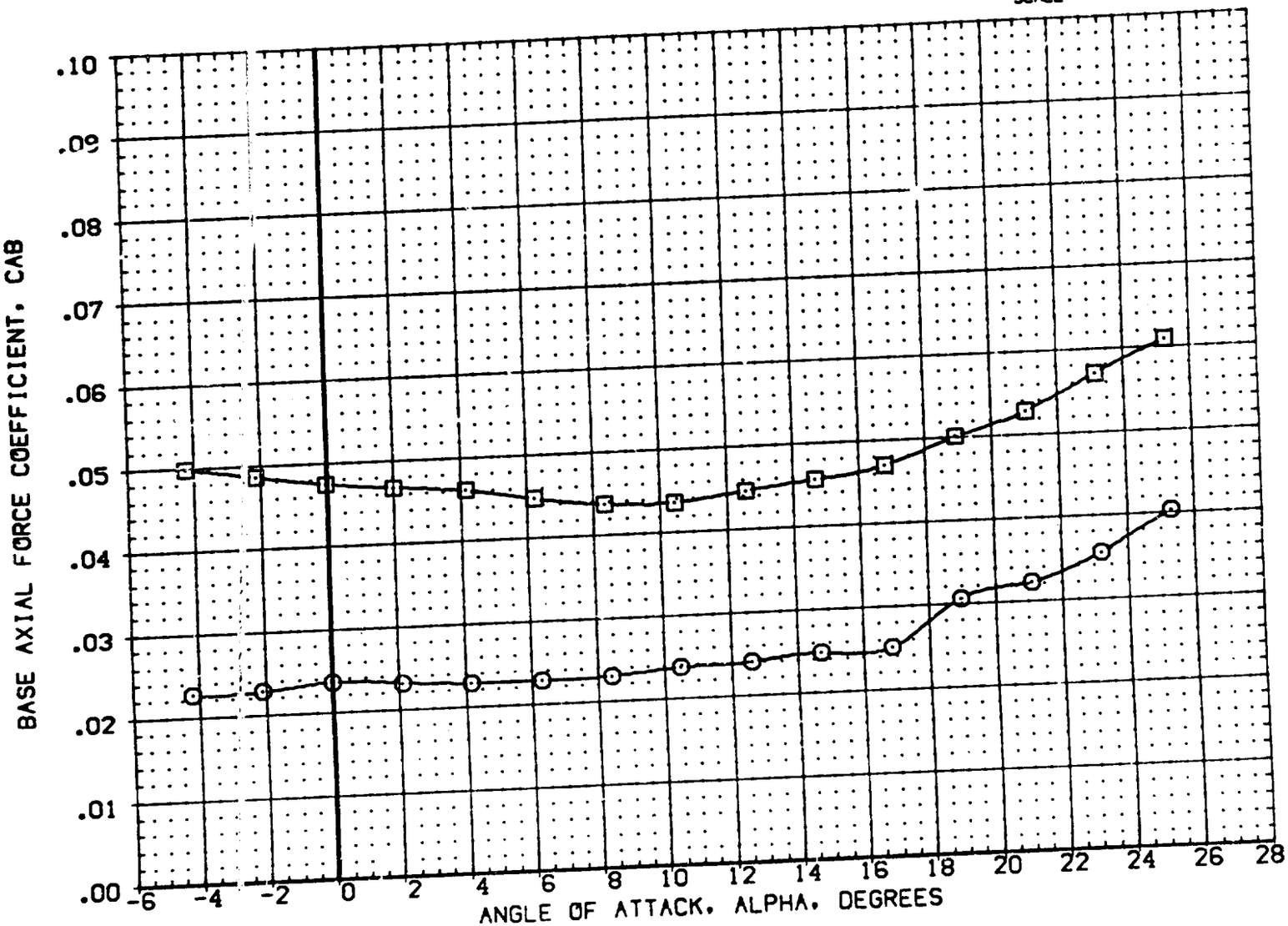


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(IDP077) ○	0A21	B17C7	F5	W107E23V7R6X9
(IDP001) □	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

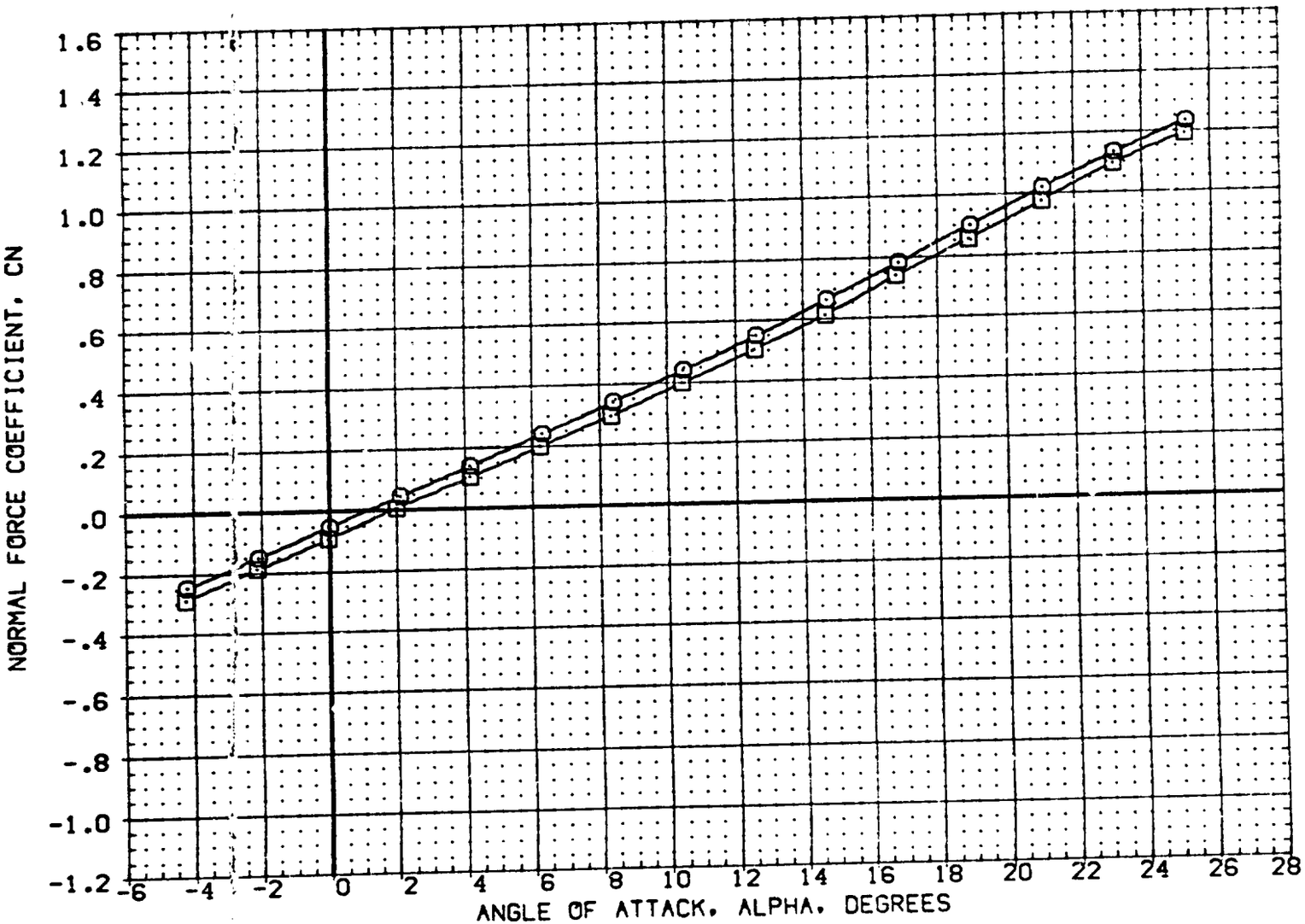


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(IDP077)	○	0A21	B17C7	F5	V107E23V7R6X9
(IDP001)	□	0A21	B17C7	M4F5	V107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

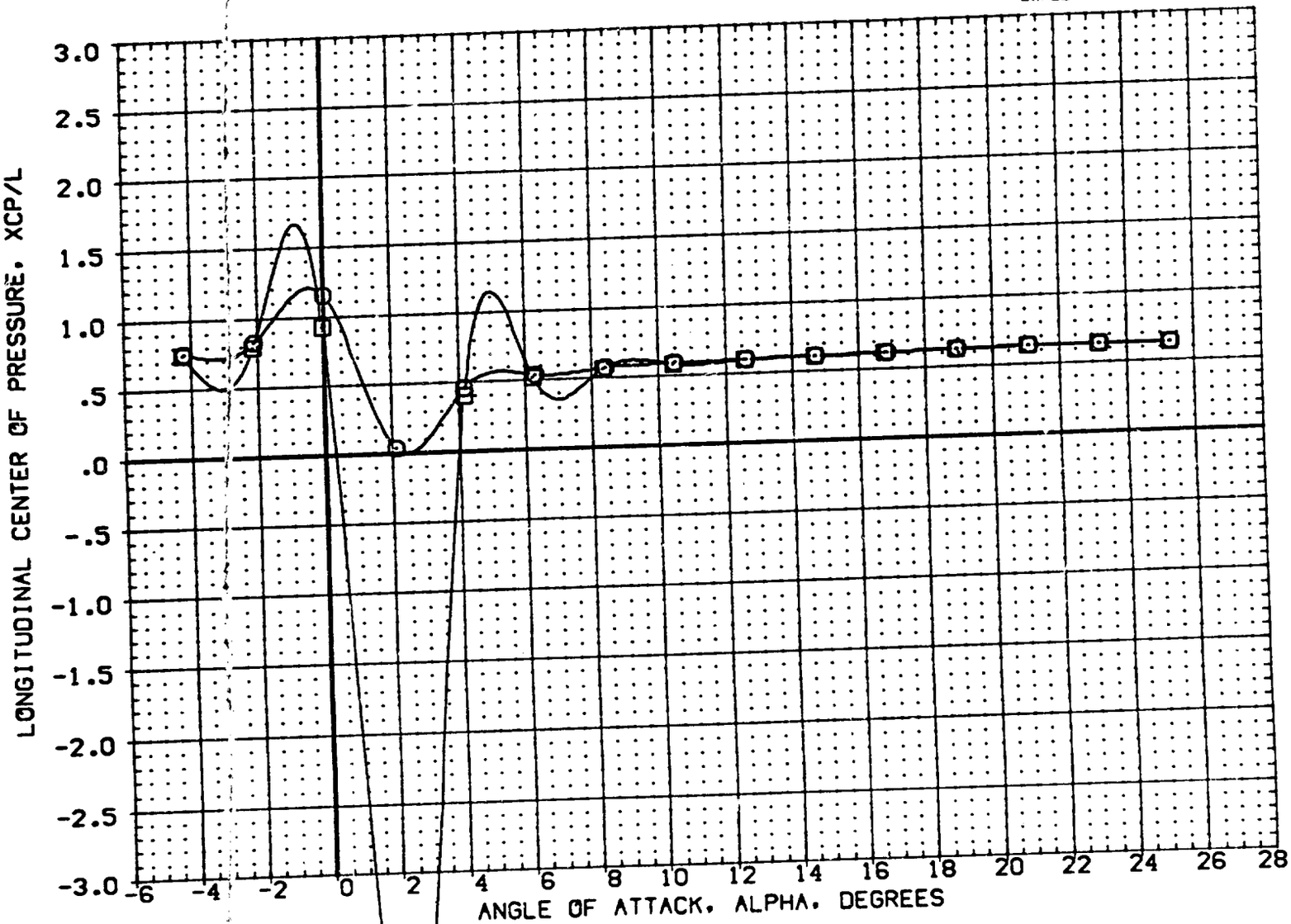


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
[1DP077]	○	0A21	B17C7	F5	W107E23V7R6X9
[1DP001]	□	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPDBRK
.000	.000	-18.000	55.000
.000	.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

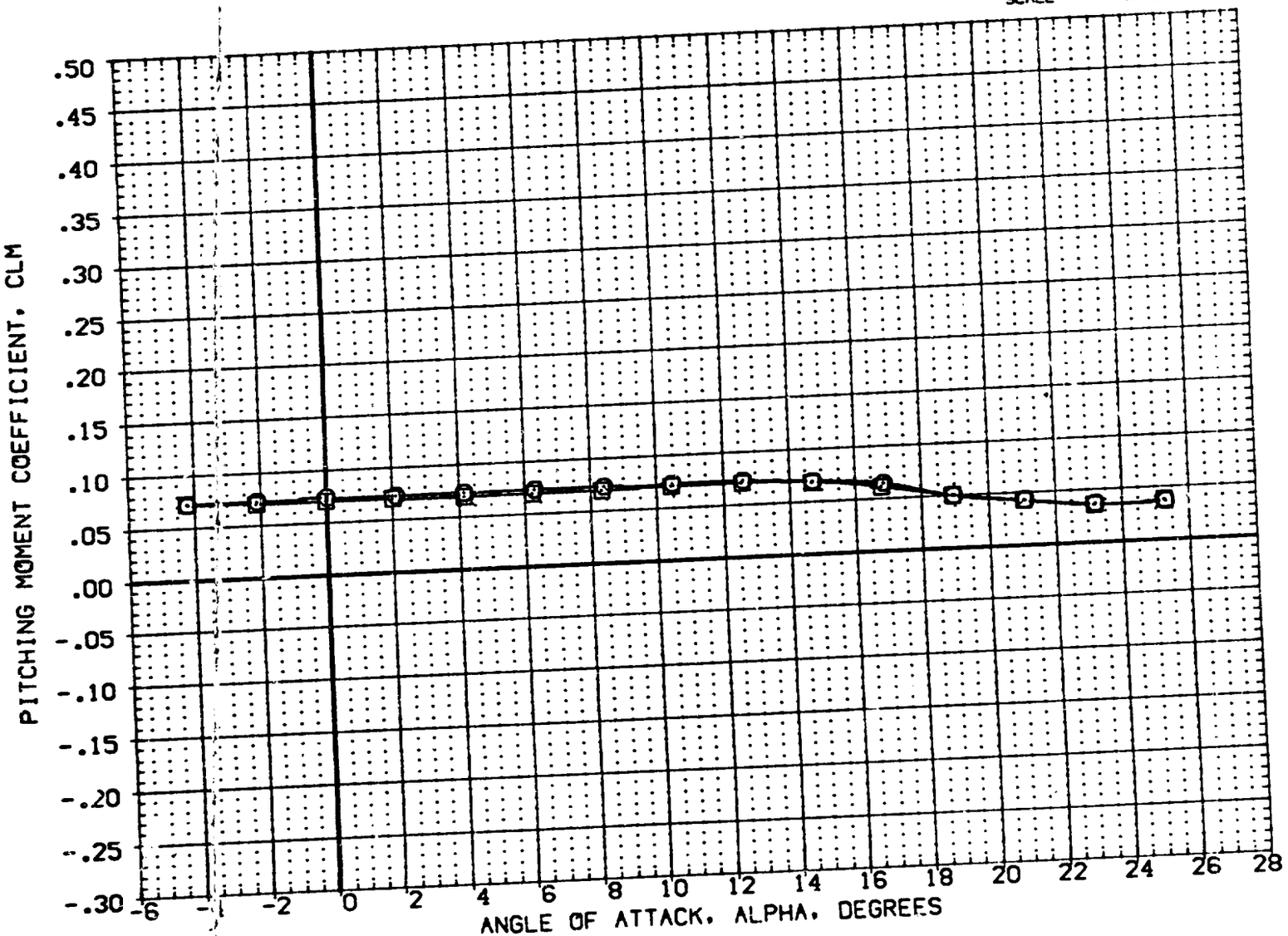


FIGURE 43 LONGITUDINAL EFFECT OF OMS POD

(A)MACH = .26

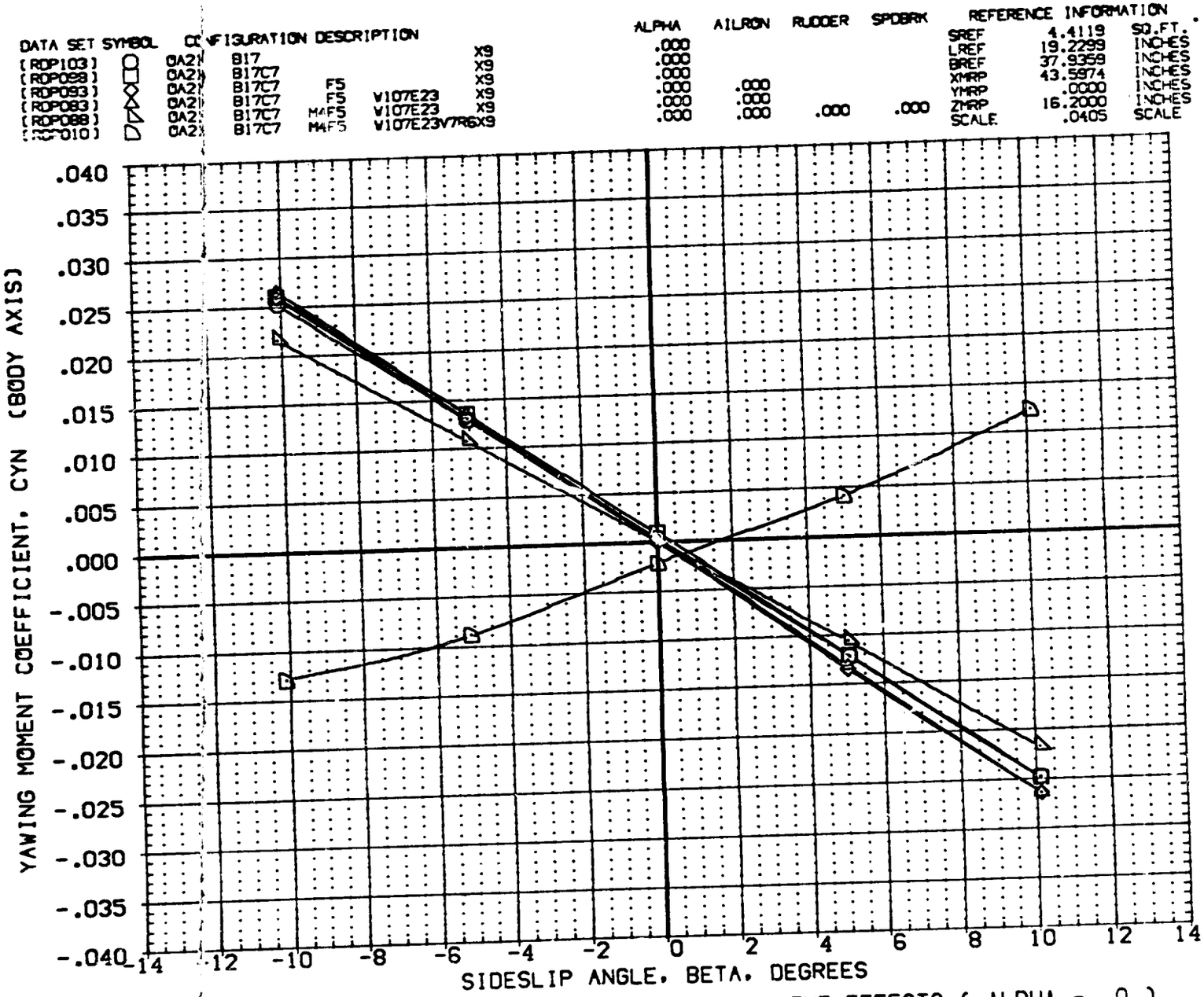


FIGURE 44 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 0)

(A)MACH = .26

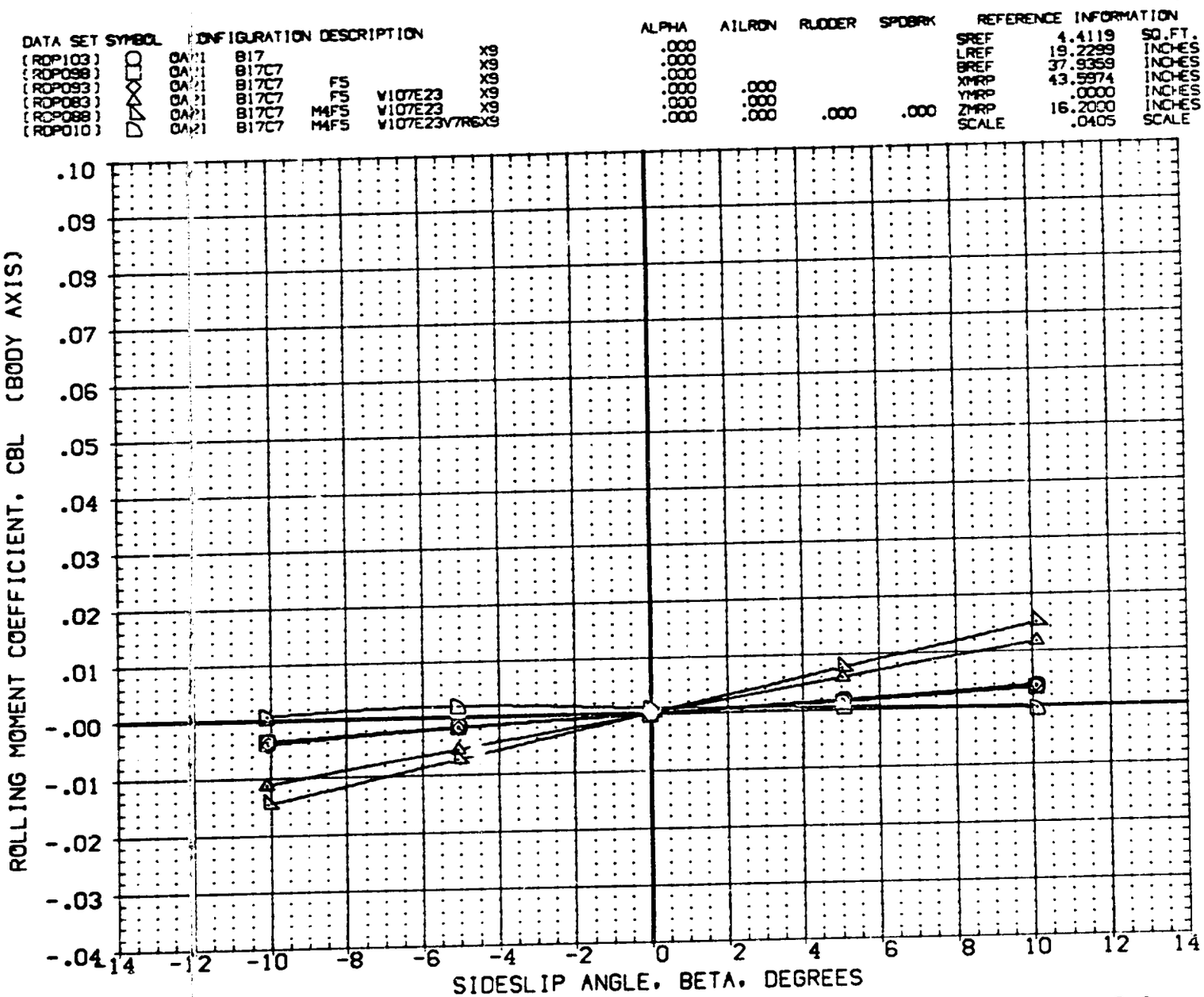


FIGURE 4.1 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 0)

(A)MACH = .26

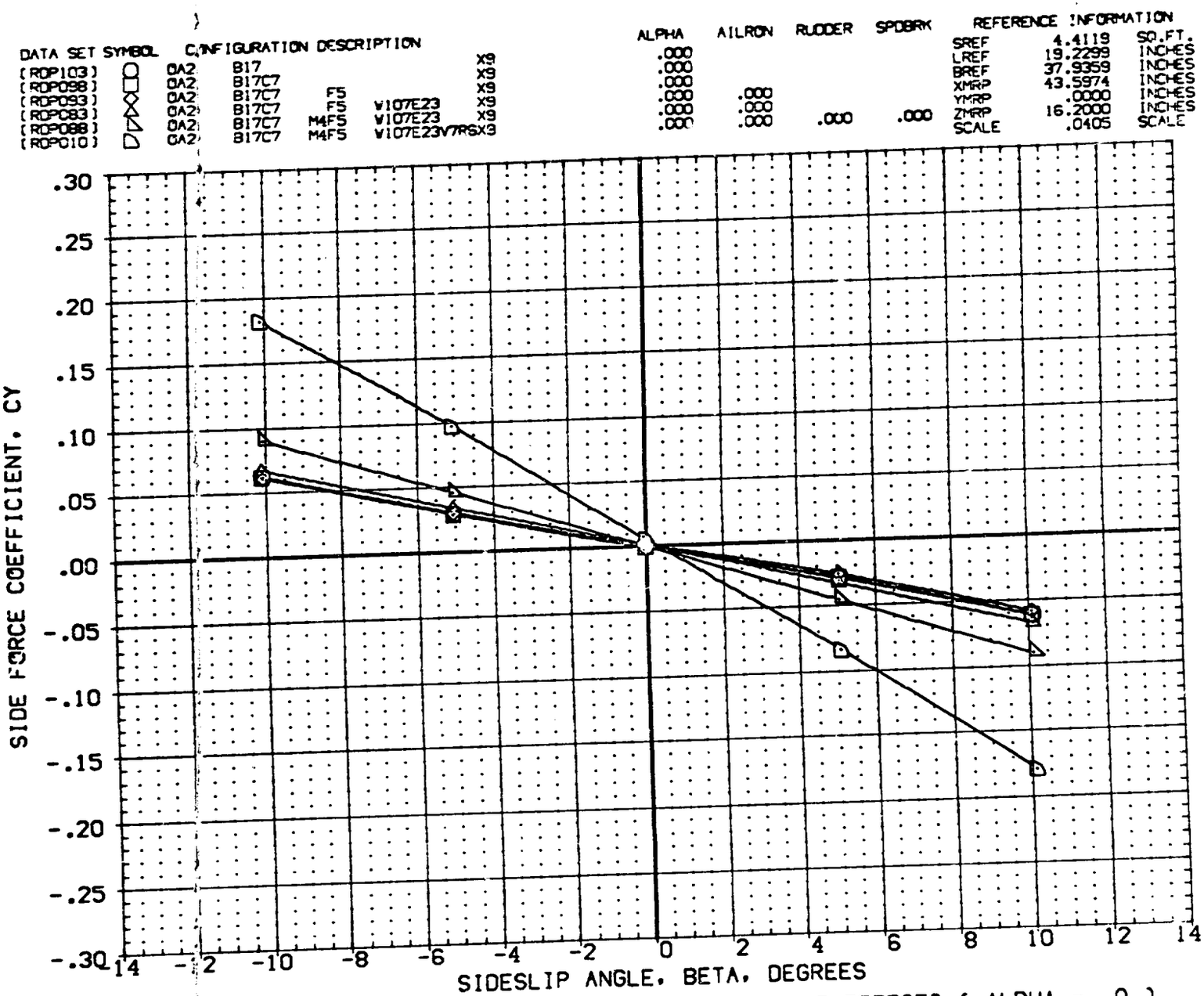


FIGURE 4.1 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 0)

(A)MACH = .26

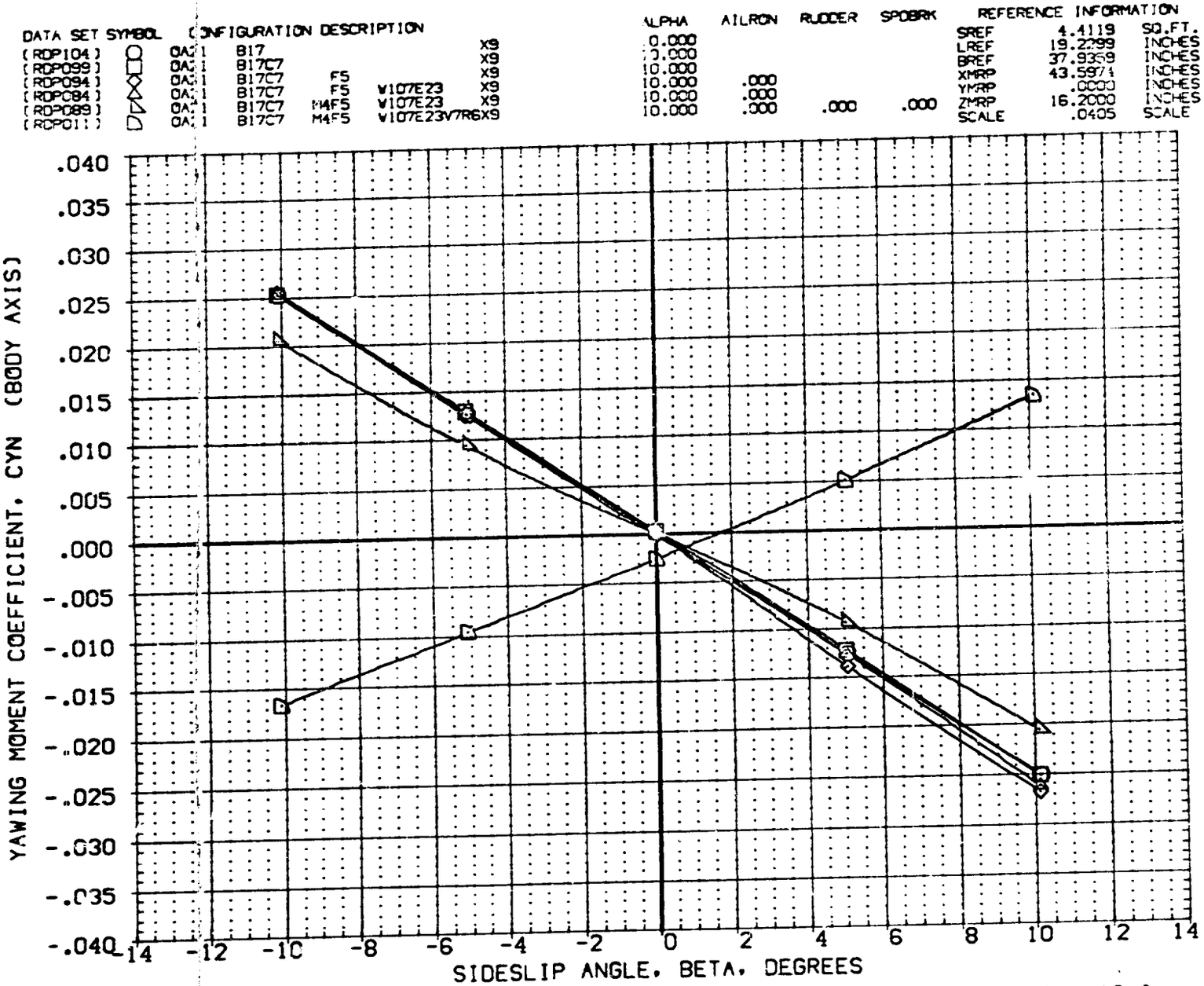


FIGURE 45 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 10)

(A)MACH = .26

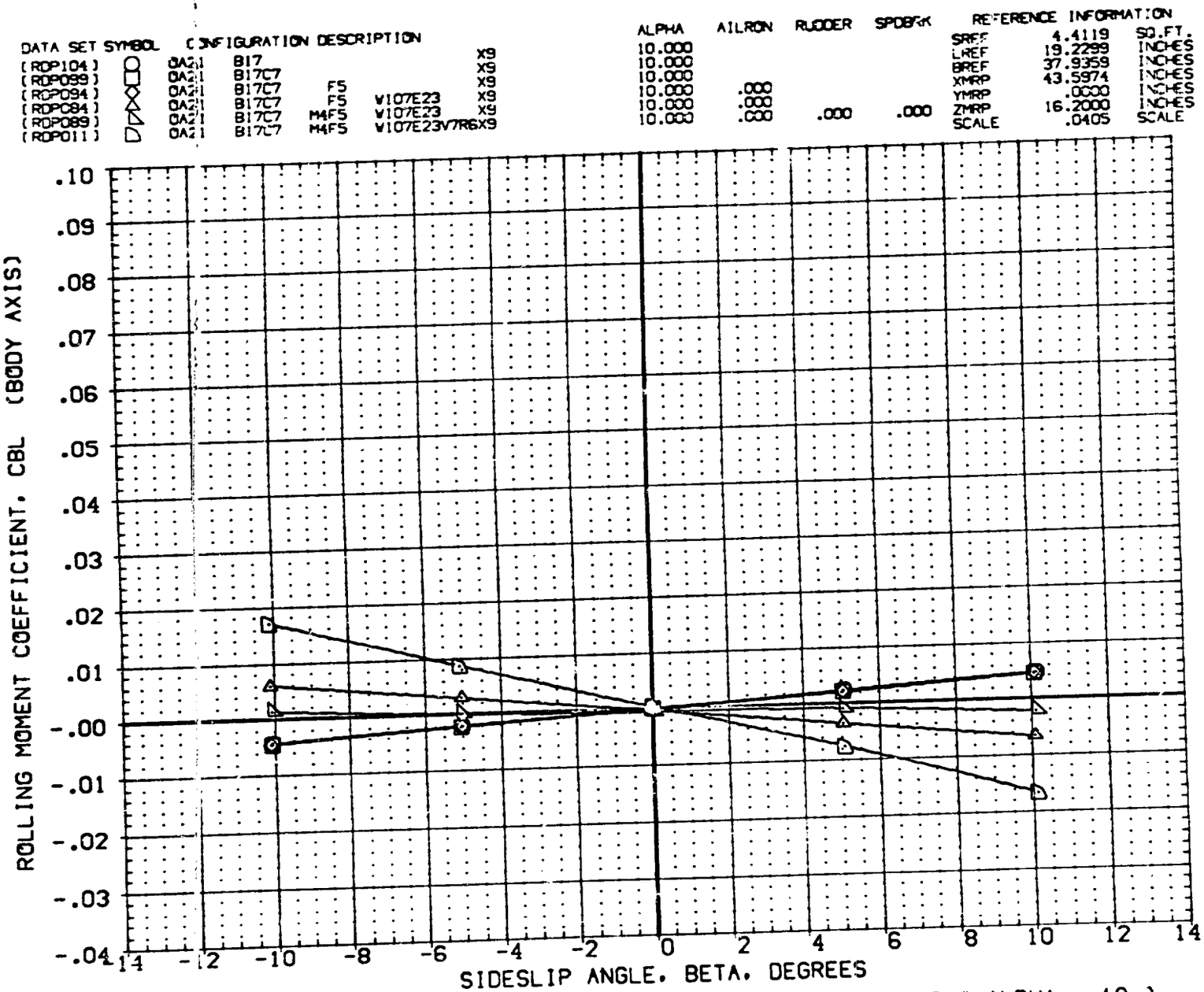


FIGURE 45 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 10)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(RDP104)		@ .21	B17			X9
(RDP099)		@ .21	B17C7			X9
(RDP094)		@ .21	B17C7	F5		X9
(RDP084)		@ .21	B17C7	F5	W107E23	X9
(RDP089)		@ .21	B17C7	M4F5	W107E23	X9
(RDP011)		@ .21	B17C7	M4F5	W107E23V7R6X9	

ALPHA	AILRON	RUDDER	SPOBRK
10.000			
10.000			
10.000			
10.000	.000		
10.000	.000		
10.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040S	SCALE

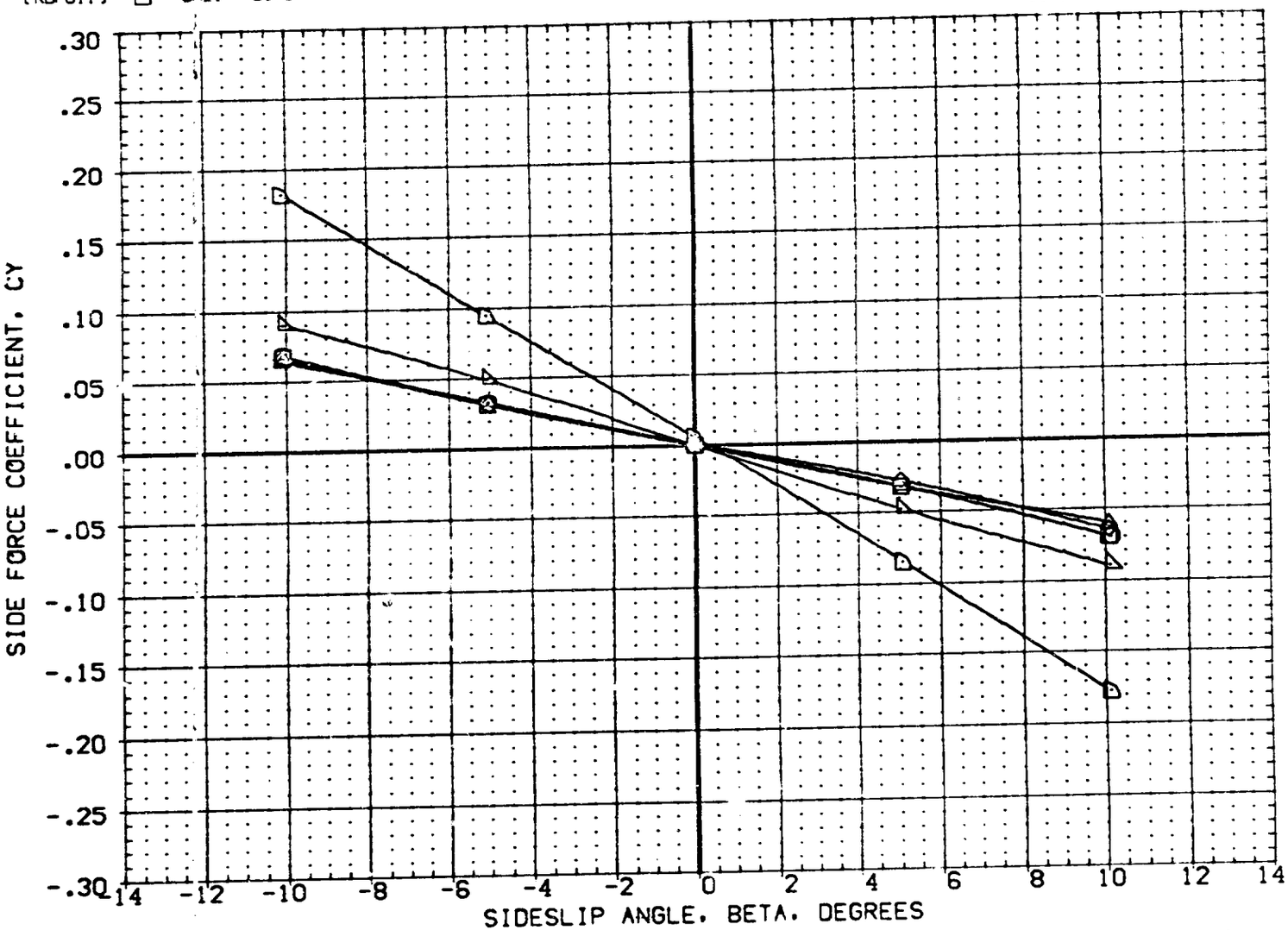


FIGURE 45 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 10)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(ROP105)	□	(1A21	B17			X9
(ROP100)	□	(1A21	B17C7			X9
(ROP095)	◇	(1A21	B17C7	F5		X9
(ROP085)	△	(1A21	B17C7	F5	W107E23	X9
(ROP080)	▽	(1A21	B17C7	M4F5	W107E23	X9
(ROP012)	▷	(1A21	B17C7	M4F5	W107E23V7R6	X9

ALPHA	AILRON	RUDDER	SPOBRK
15.000			
15.000			
15.000			
15.000	.000		
15.000	.000		
15.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

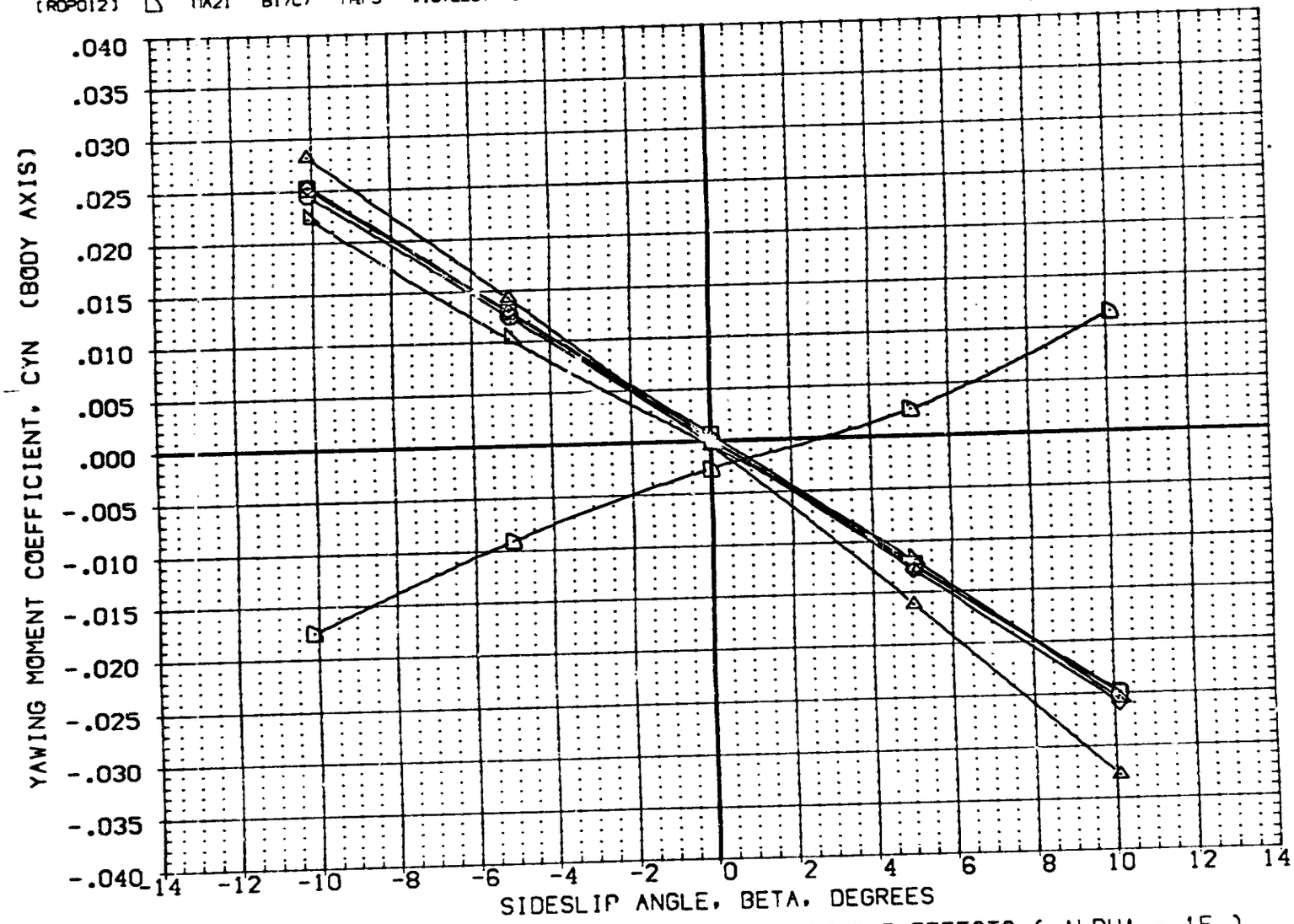


FIGURE 46 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 15)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					ALPHA	AILRON	RUDDER	SPOBRK
(ROP105)	□	0A21	B17			X9	15.000			
(ROP100)	◇	0A21	B17C7			X9	15.000			
(ROP095)	△	0A21	B17C7	F5		X9	15.000			
(ROP085)	▷	0A21	B17C7	F5	V107E23	X9	15.000	.000		
(ROP090)	○	0A21	B17C7	H4F5	V107E23	X9	15.000	.000		
(ROP012)	▽	0A21	B17C7	H4F5	V107E23V7R6X9		15.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.1974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

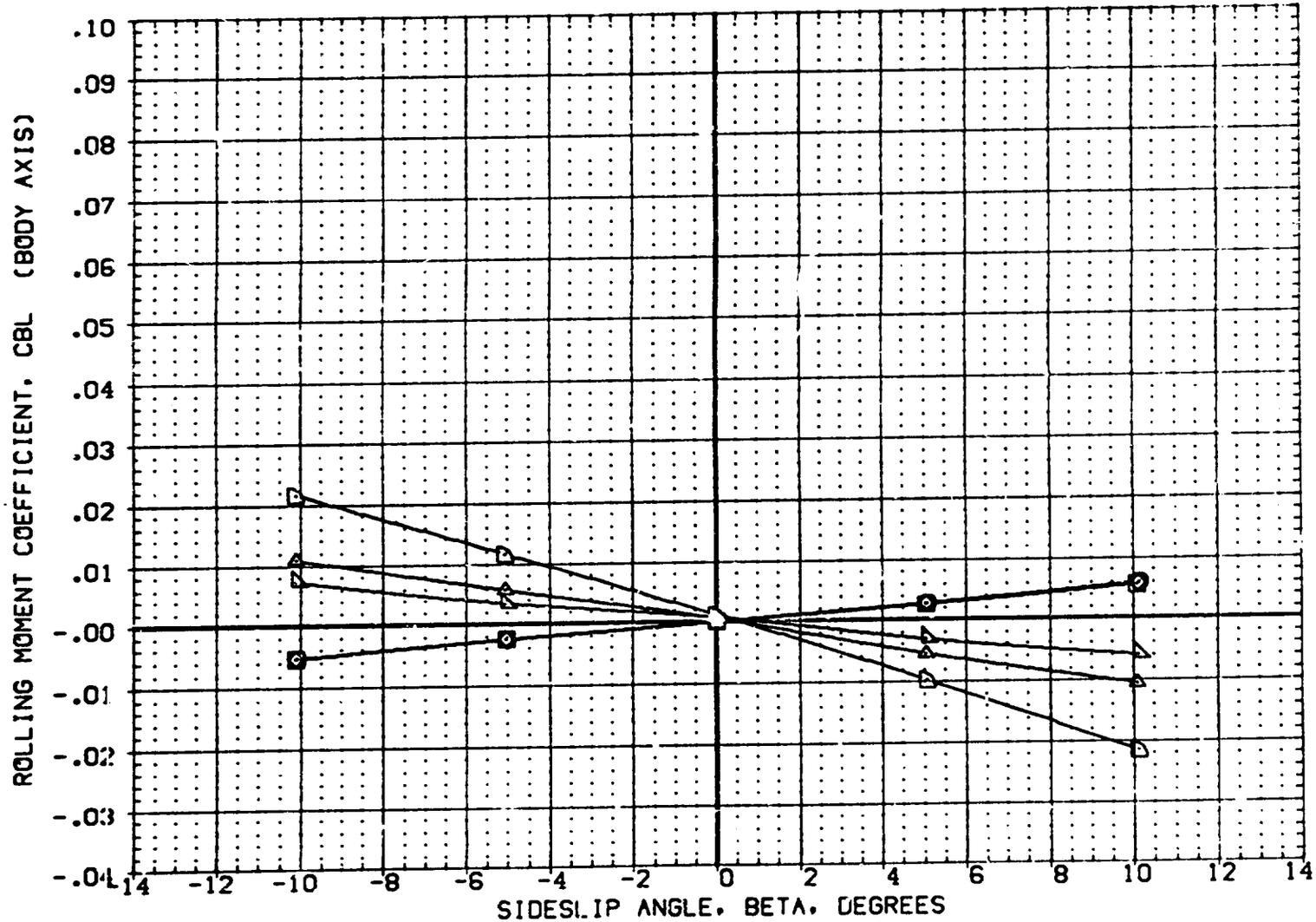


FIGURE 46 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 15)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				
(ROP105)	□	0A21	B17			X9
(ROP100)	○	0A21	B17C7			X9
(ROP095)	◇	0A21	B17C7	F5		X9
(ROP085)	△	0A2	B17C7	F5	V107E23	X9
(ROP090)	▽	0A21	P17C7	M4F5	V107E23	X9
(ROP012)	▷	0A21	B17C7	M4F5	V107E23V7R6X9	

ALPHA	AILRON	RUDDER	SPOBRK
15.000			
15.000			
15.000			
15.000	.000		
15.000	.000		
15.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	13.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

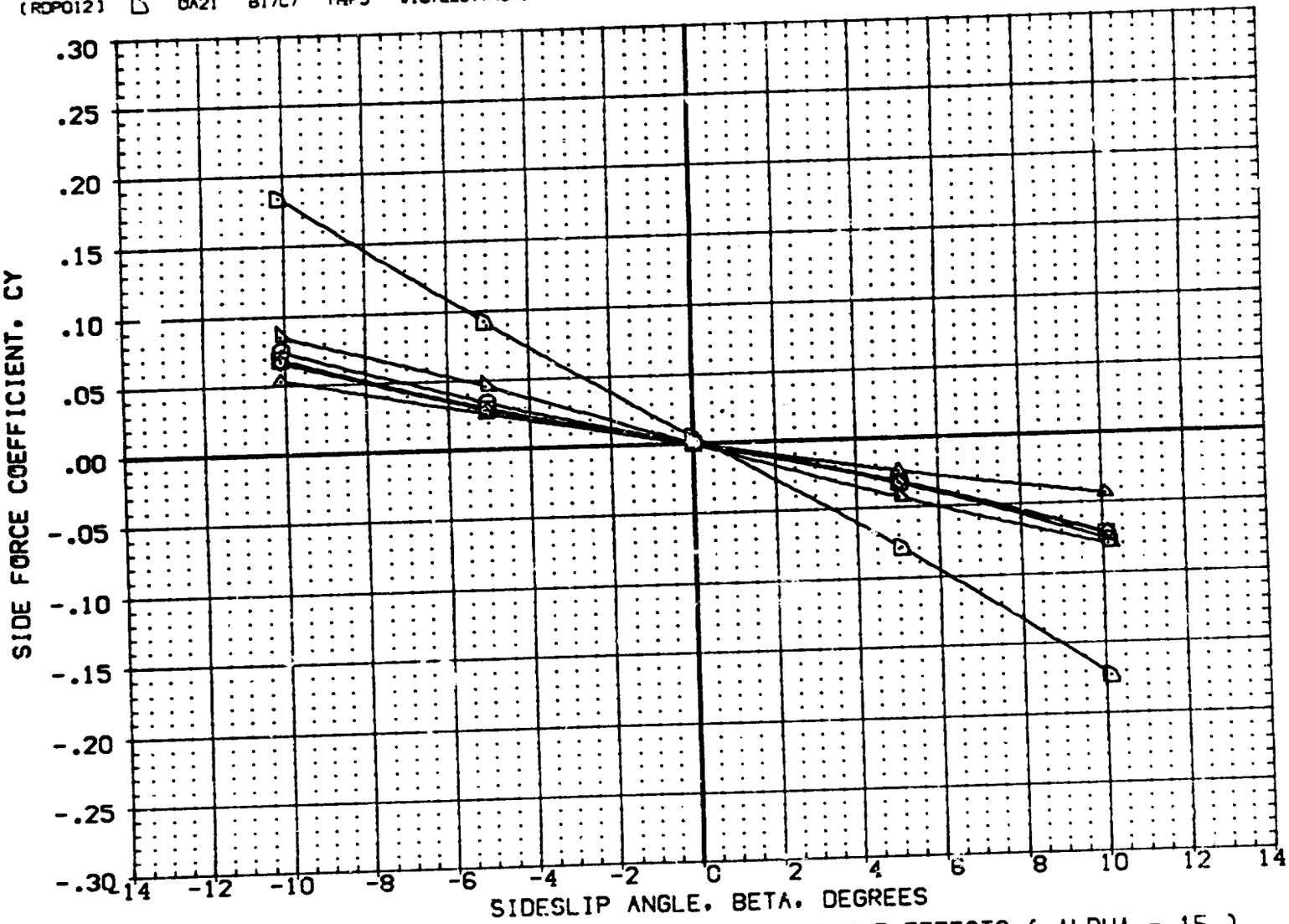


FIGURE 46 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 15)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION					ALPHA	AILRON	RUDDER	SPOBRK
(ROP106)	□	0A21	B17			X9	20.000			
(ROP101)	◇	0A21	B17C7			X9	20.000			
(ROP036)	△	0A21	B17C7	F5		X9	20.000			
(ROP086)	▷	0A21	B17C7	F5	V107E23	X9	20.000	.000		
(ROP091)	▽	0A21	B17C7	M4F5	V107E23	X9	20.000	.000		
(ROP013)	◁	0A21	B17C7	M4F5	V107E23V7R6	X9	20.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.3359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

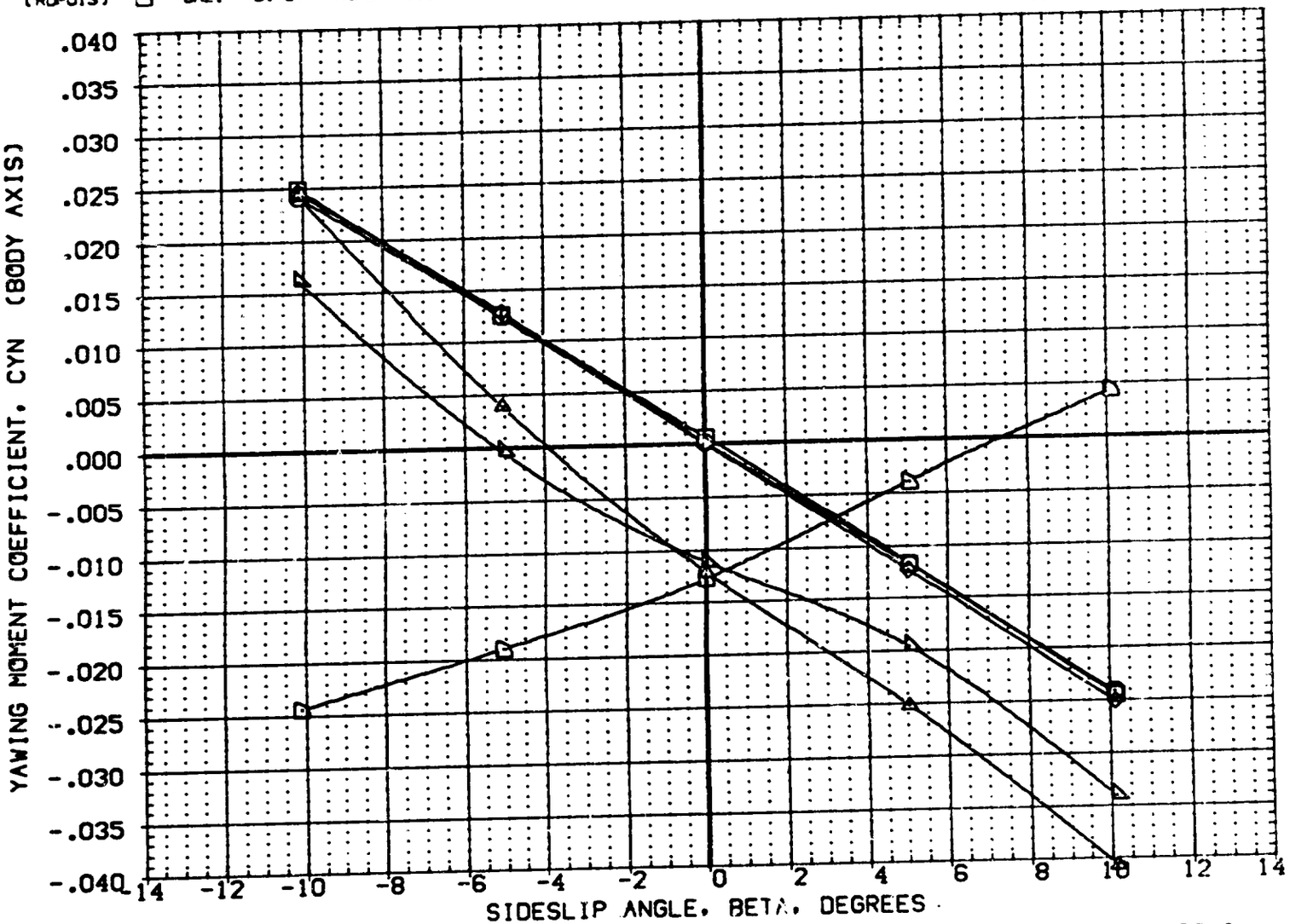


FIGURE 47 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 20)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP106)	□	0A21	B17		X9
(ROP101)	◇	0A21	B17C7		X9
(ROP096)	▷	0A21	B17C7	F5	X9
(ROP086)	△	0A21	B17C7	F5 W107E23	X9
(ROP091)	▽	0A21	B17C7	M4F5 W107E23	X9
(ROP013)	▷	0A21	B17C7	M4F5 W107E23V7R6	X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000			
20.000			
20.000			
20.000	.000		
20.000	.000		
20.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

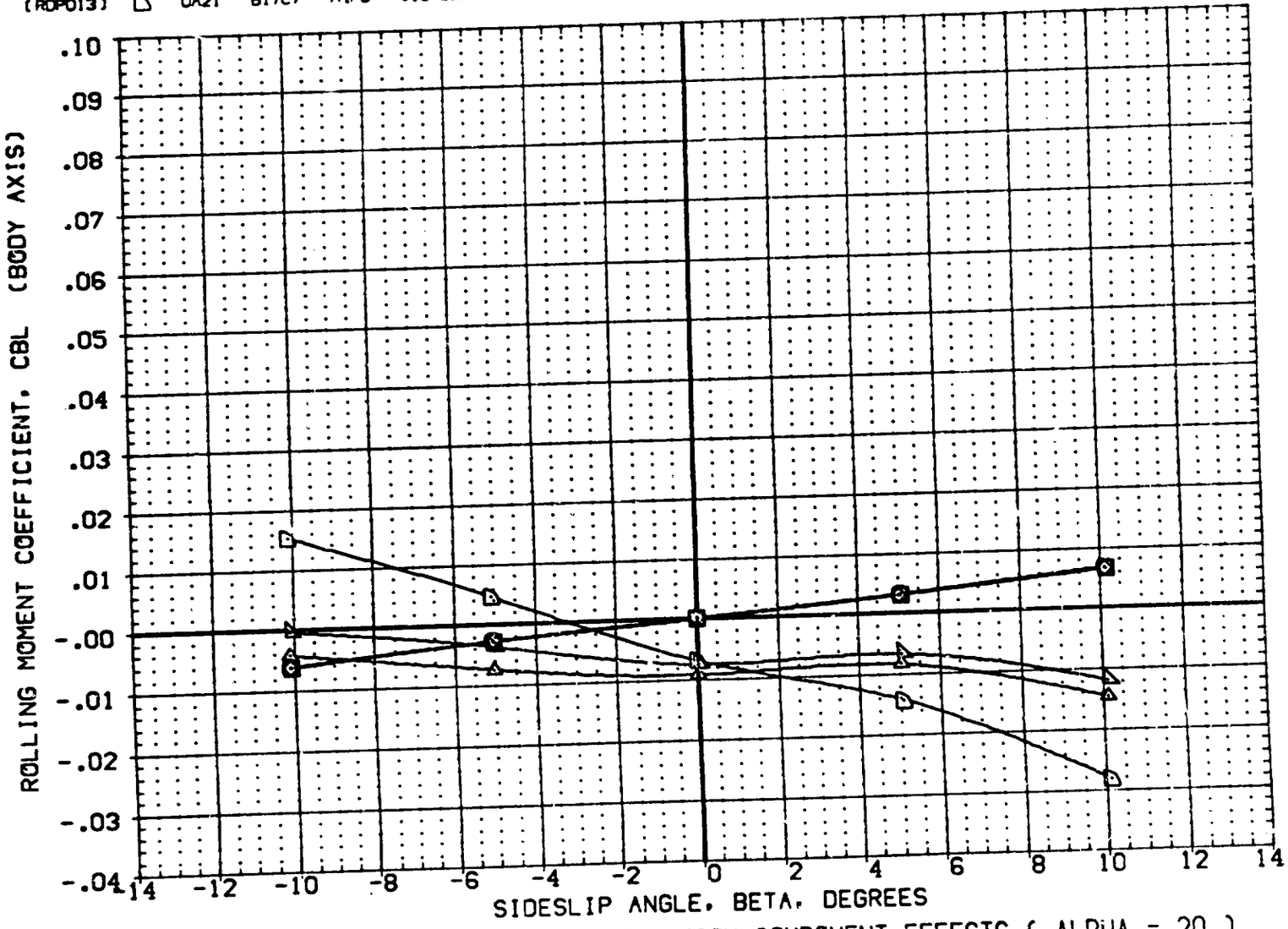


FIGURE 47 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 20)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	AILRON	RUDDER	SPOBRK
(ROP106)	□	0A21	B17		X9	20.000			
(ROP101)	◇	0A21	B17C7		X9	20.000			
(ROP096)	◁	0A21	B17C7	F5	X9	20.000	.000		
(ROP086)	△	0A21	B17C7	F5	W107E23 X9	20.000	.000		
(ROP091)	▷	0A21	B17C7	M4F5	W107E23 X9	20.000	.000	.000	.000
(ROP013)	▽	0A21	B17C7	M4F5	W107E23V7R6X9				

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

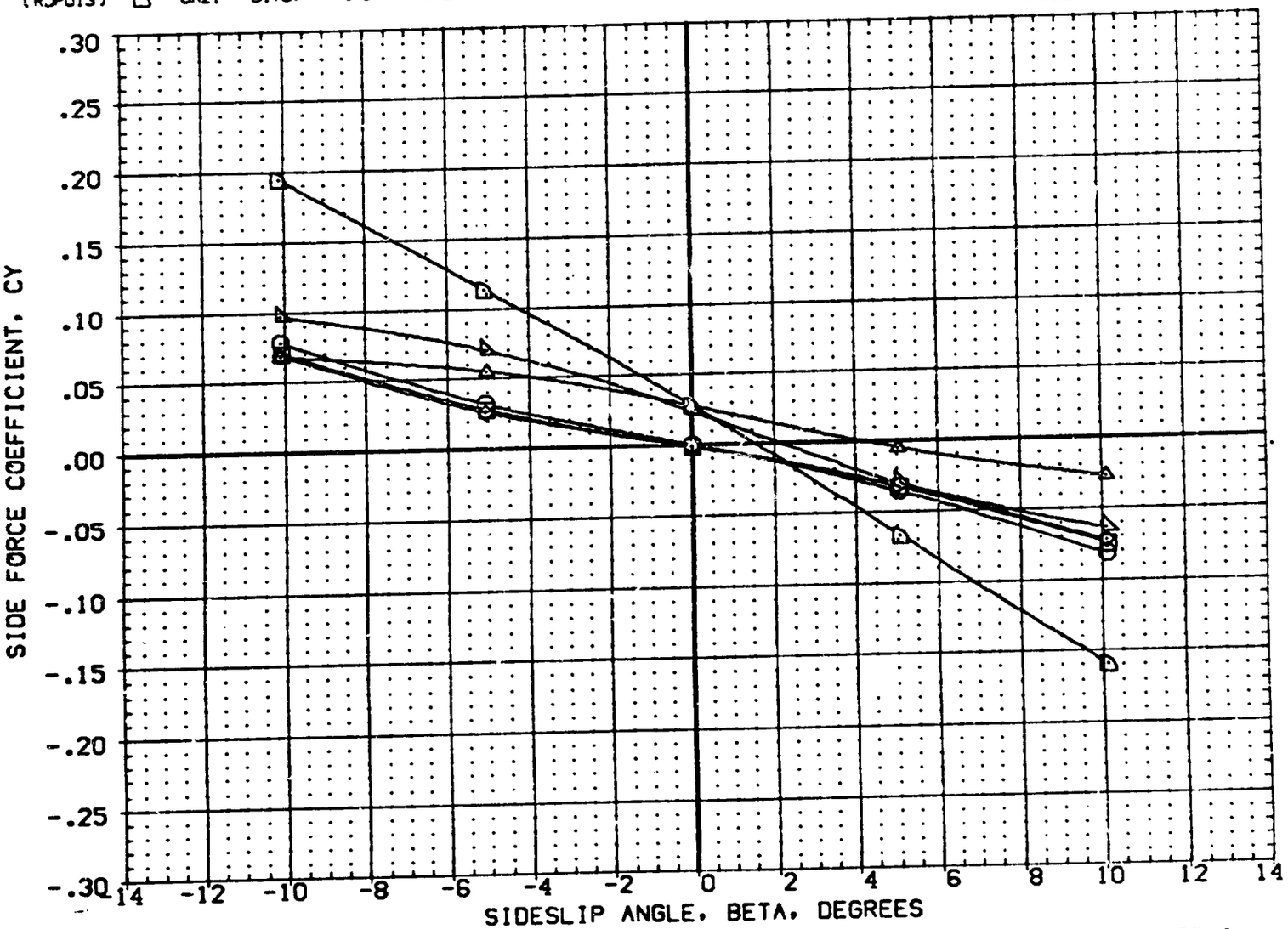


FIGURE 47 LATERAL/DIRECTIONAL CONFIGURATION COMPONENT EFFECTS (ALPHA = 20)

(A)MACH = .26

SYMBOL MACH
○ .260

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

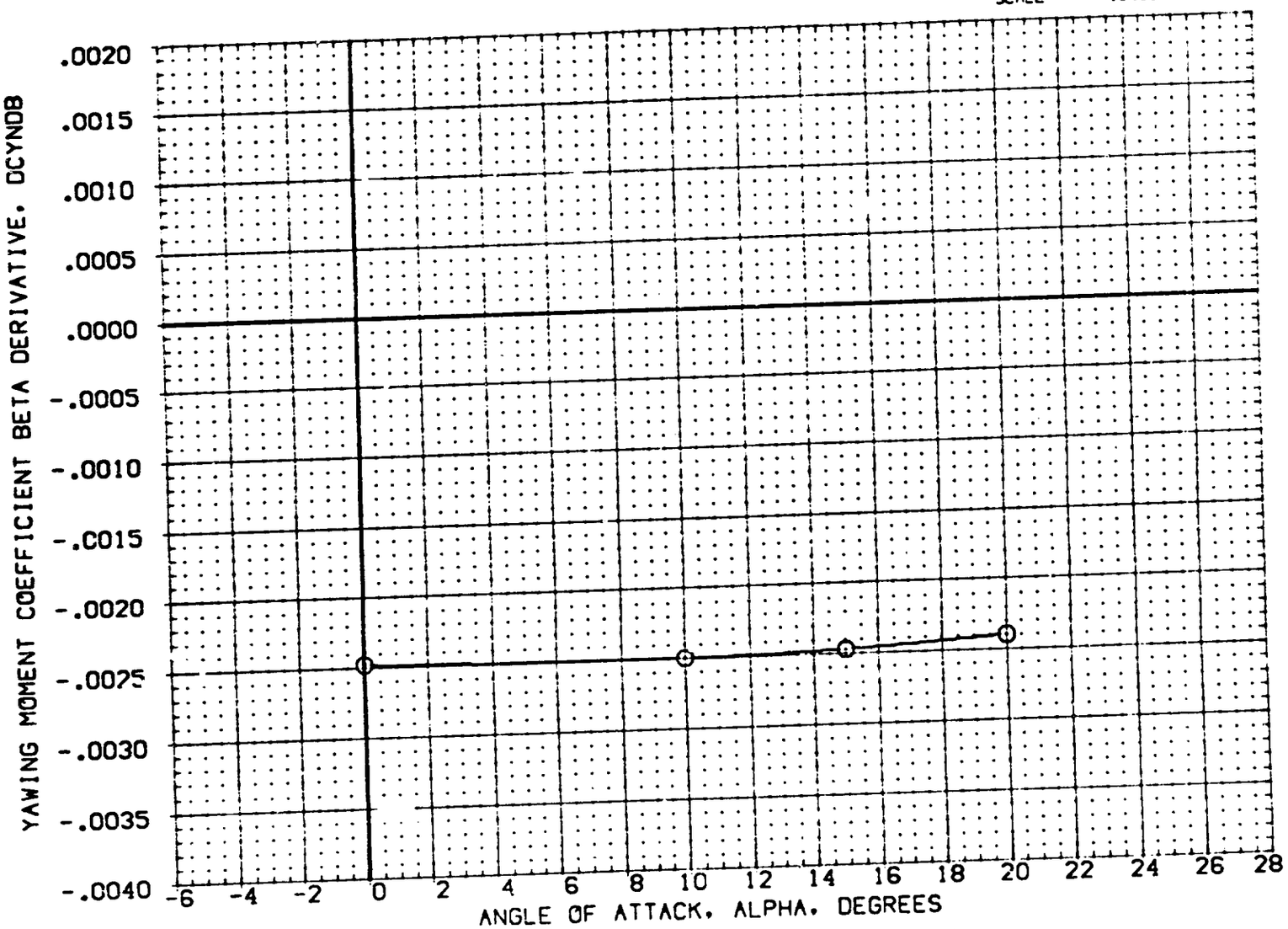


FIGURE 48 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY)

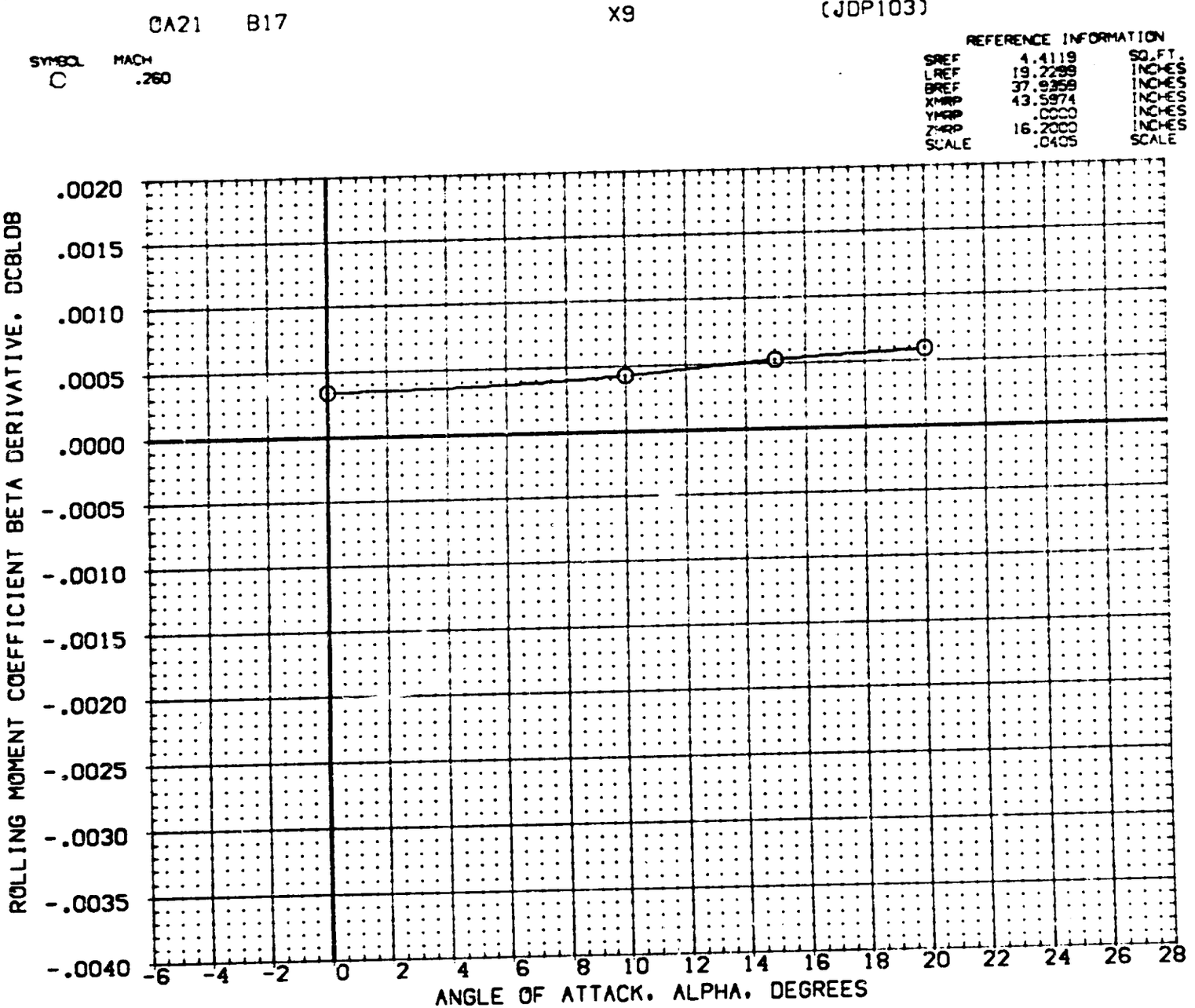


FIGURE 48 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY)

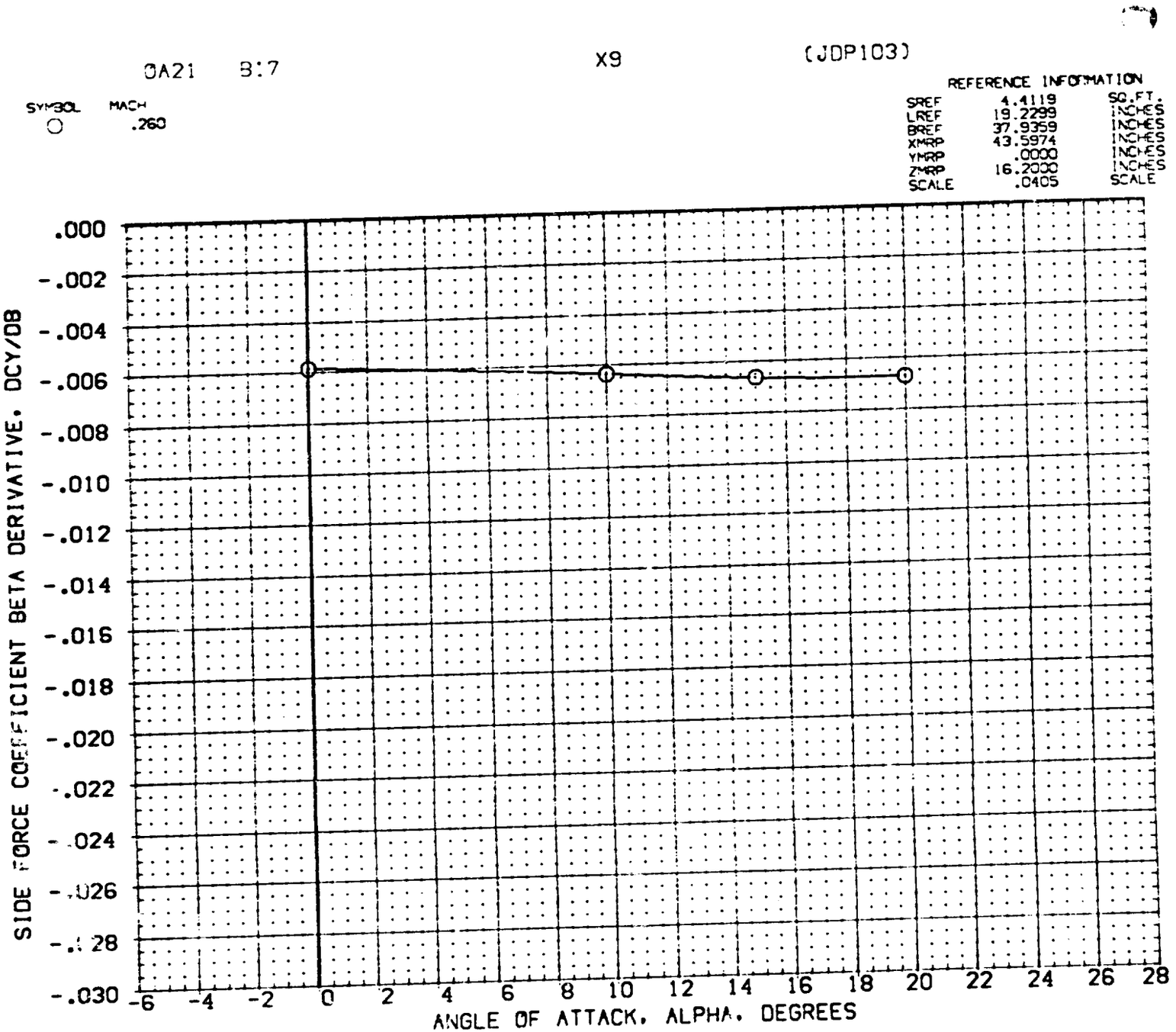


FIGURE 48 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY)

CA21 B1707 X9 (JDP098)

SYMBOL MACH
○ .260

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

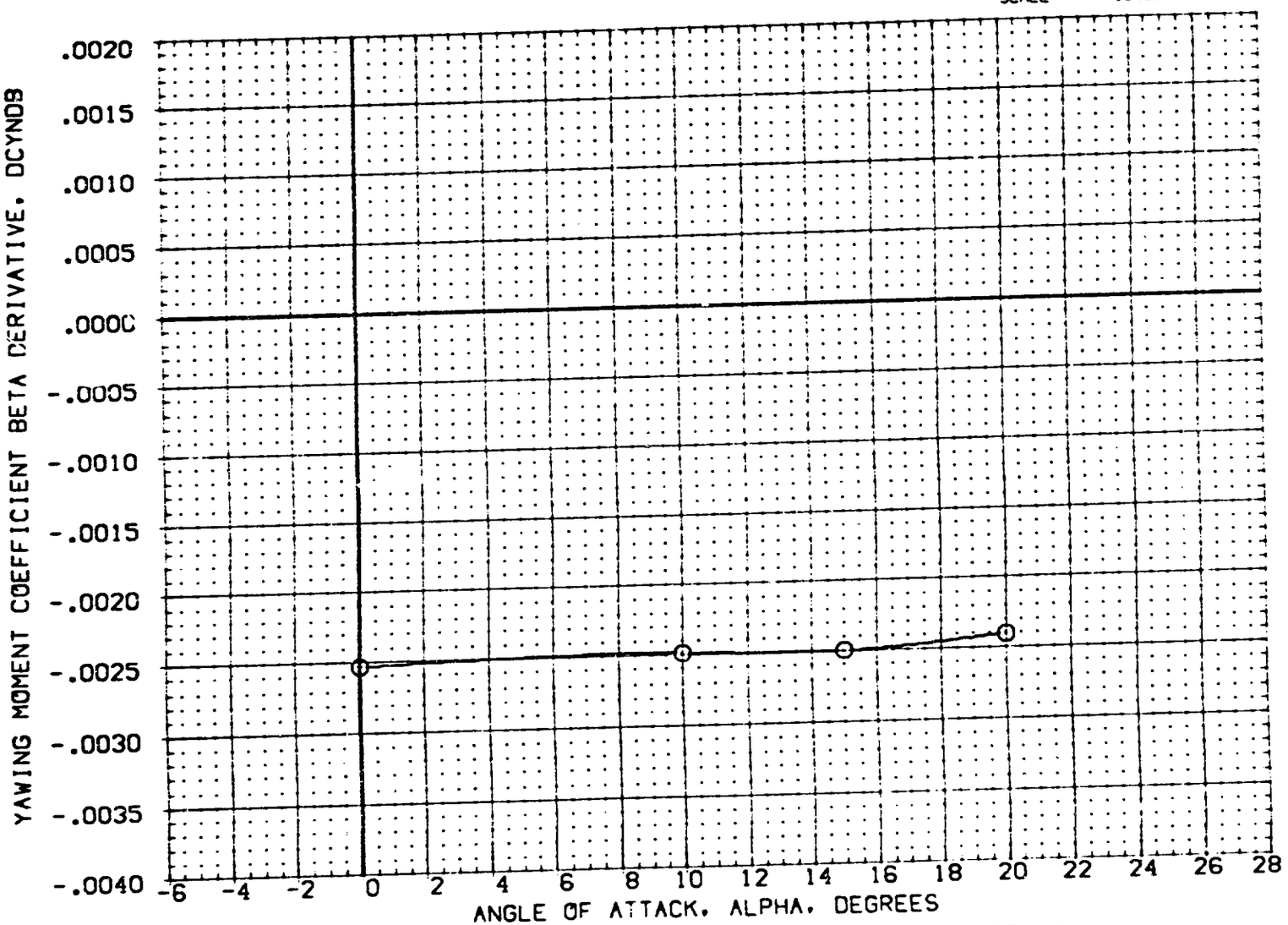


FIGURE 49 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY)

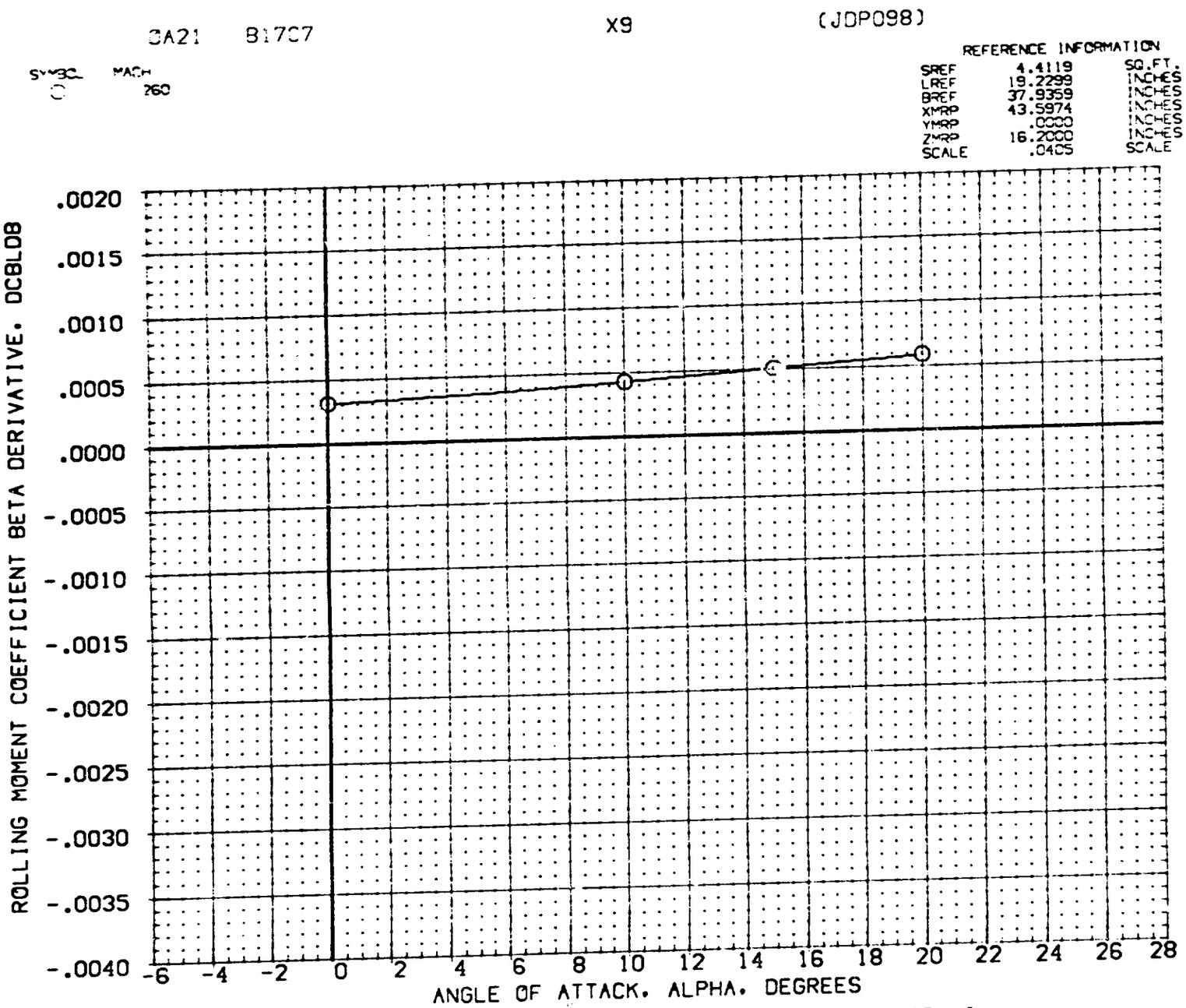


FIGURE 49 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY)

SYMBOL MACH
○ .260

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

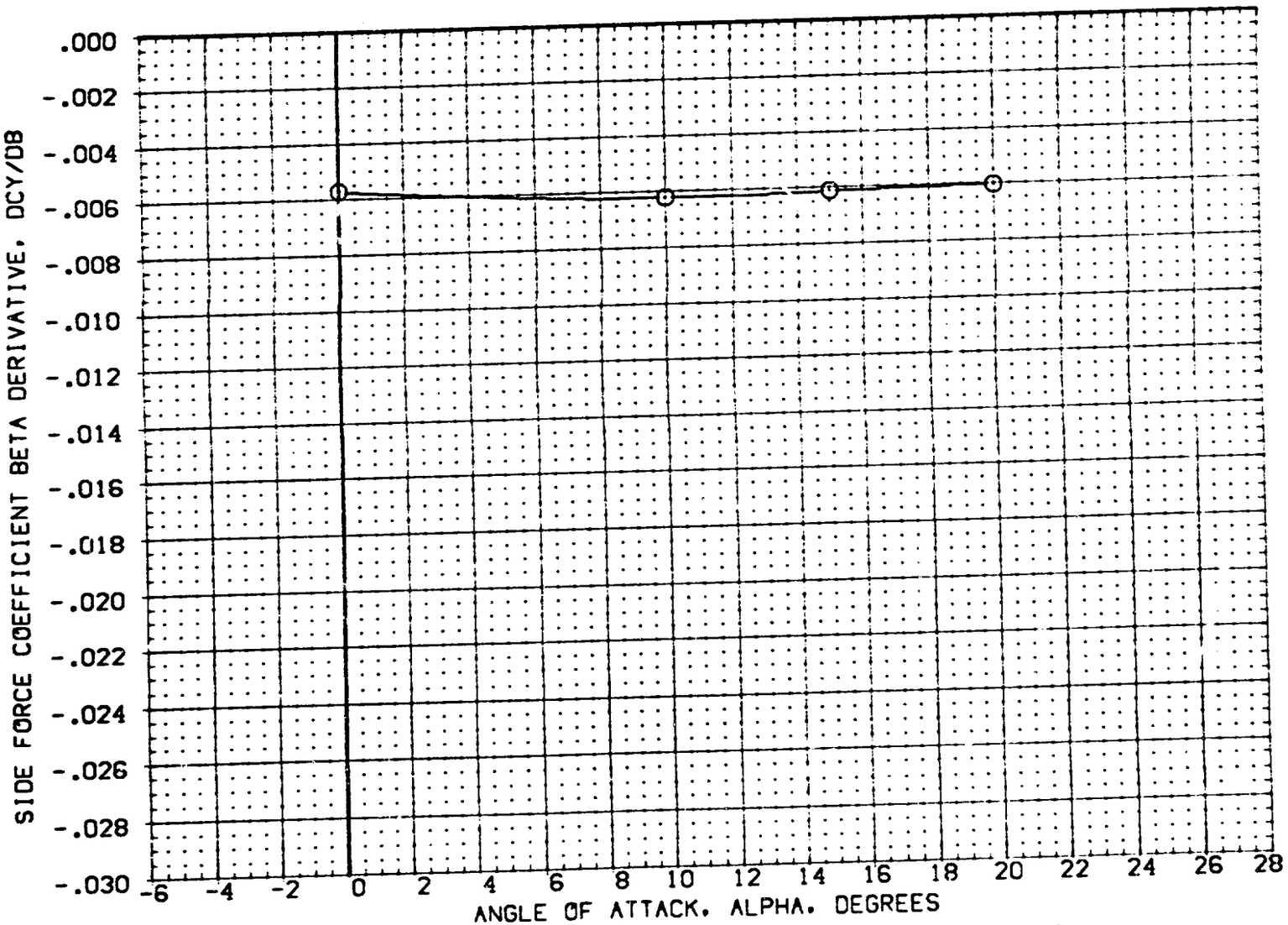


FIGURE 49 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY)

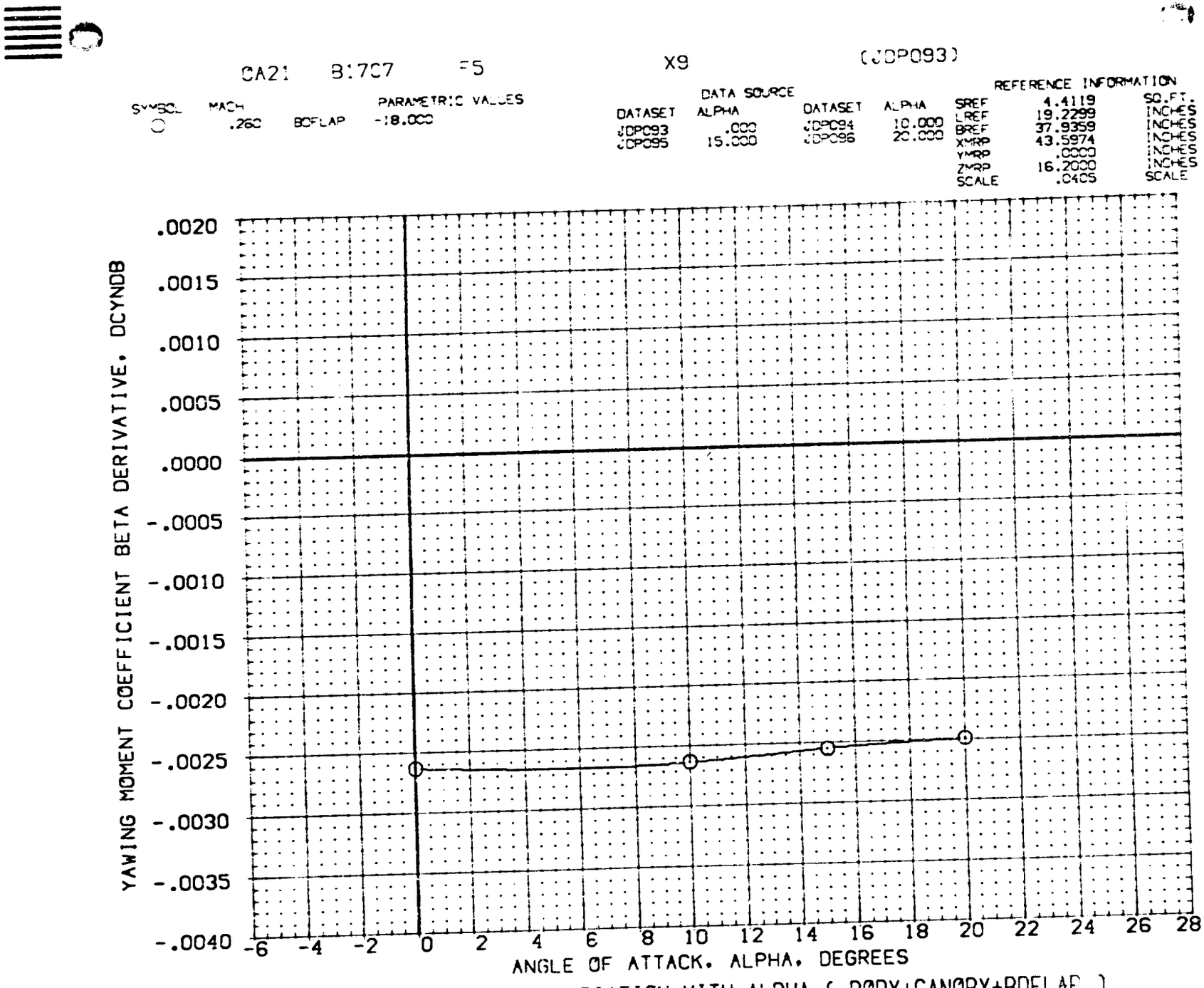


FIGURE 50 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP)

CA2: B:7C7 F5 X9 (JDP093)

SYMBOL	MACH	PARAMETRIC VALUES	
○	.260	BDFLAP	-18.000

DATA SOURCE

DATASET	ALPHA	DATASET	ALPHA
JDP093	.000	JDP094	10.000
JDP095	15.000	JDP096	20.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9358	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

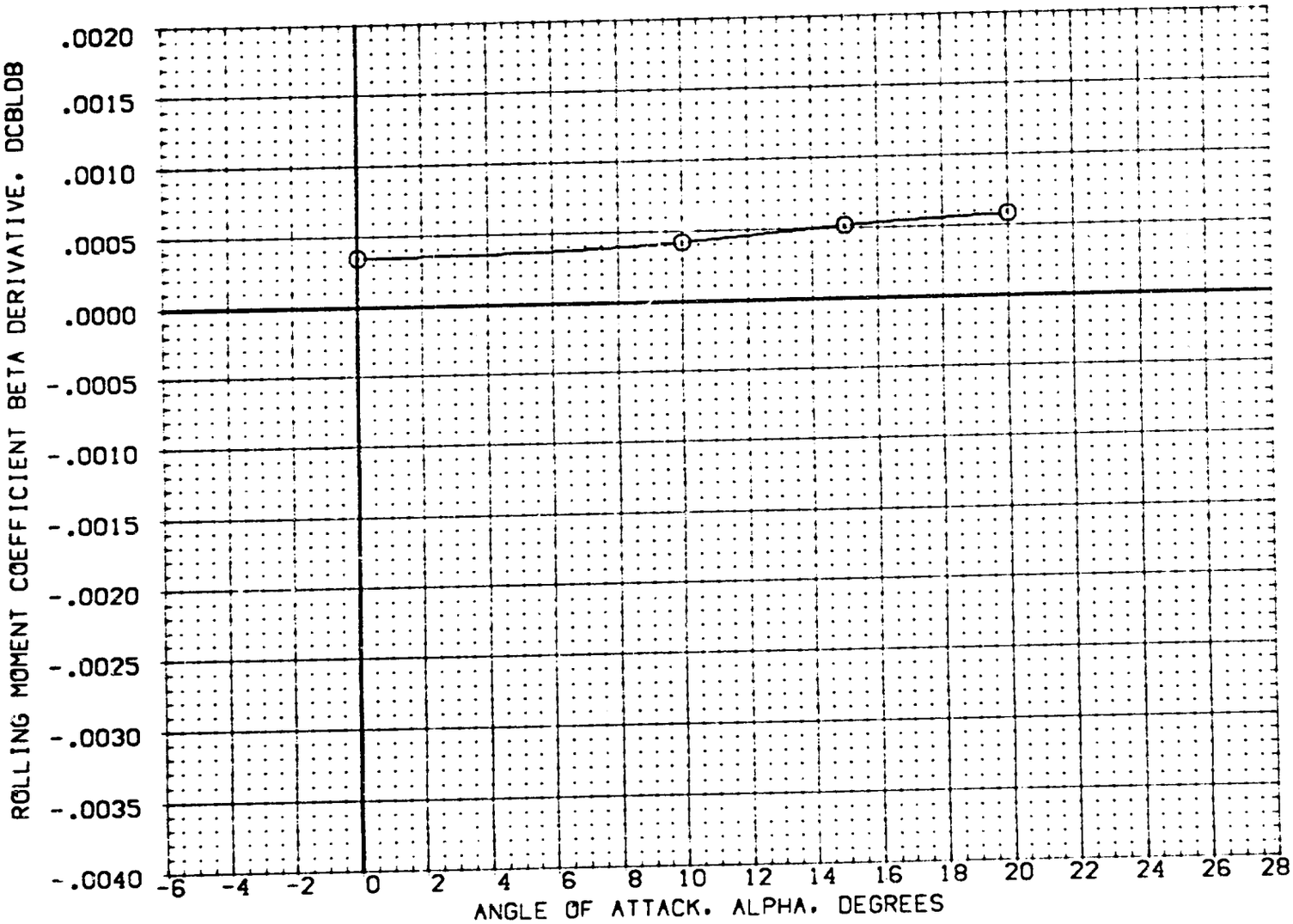


FIGURE 50 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP)

CA21 B1707 F5 X9 (JDP093)

SYMBOL	MACH	PARAMETRIC VALUES	
○	.260	BDFLAP	-18.000

DATA SOURCE

DATASET	ALPHA	DATASET	ALPHA
JDP093	.000	JDP094	10.000
JDP095	15.000	JDP096	20.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

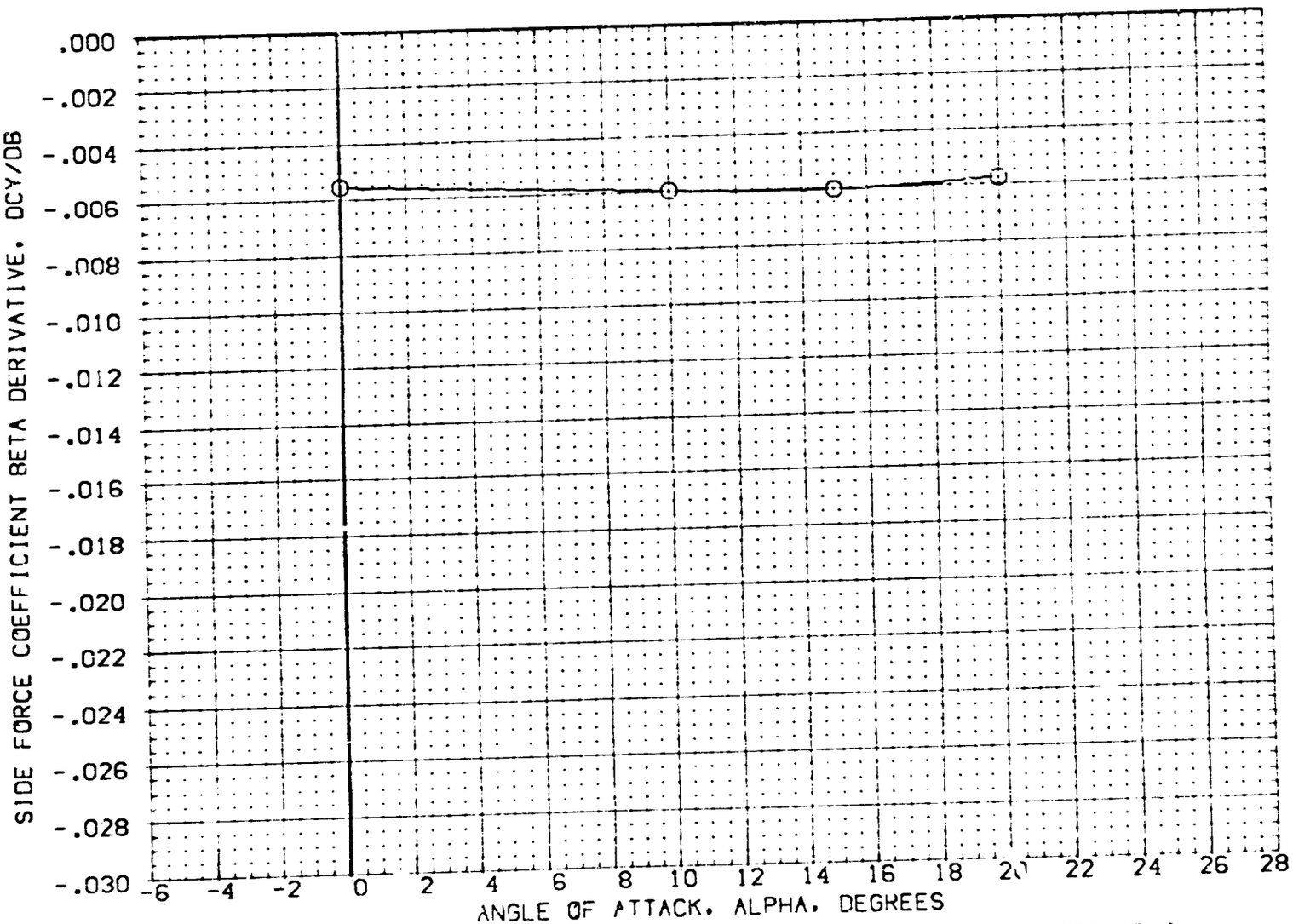


FIGURE 50 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP)

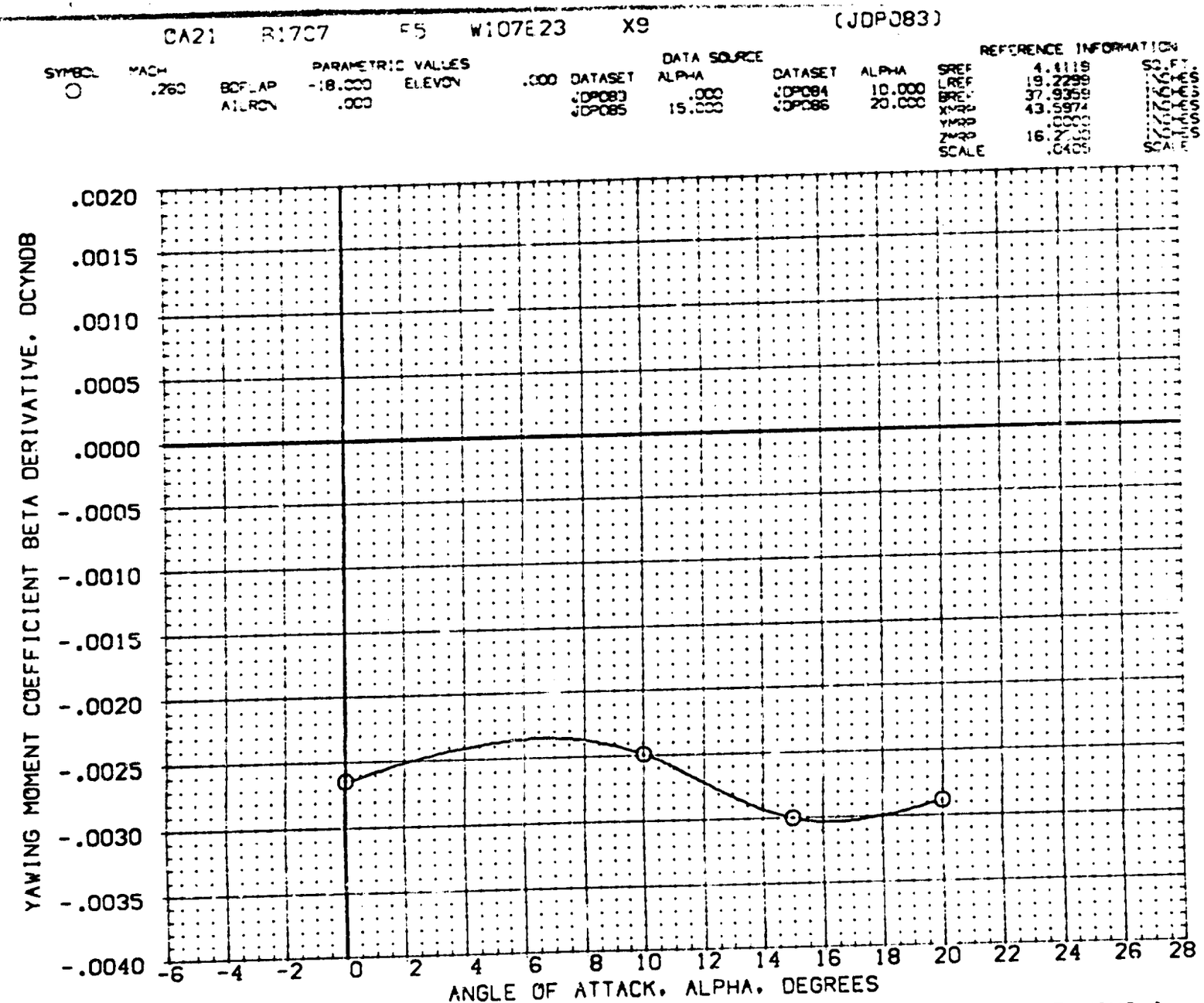


FIGURE 51 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING)

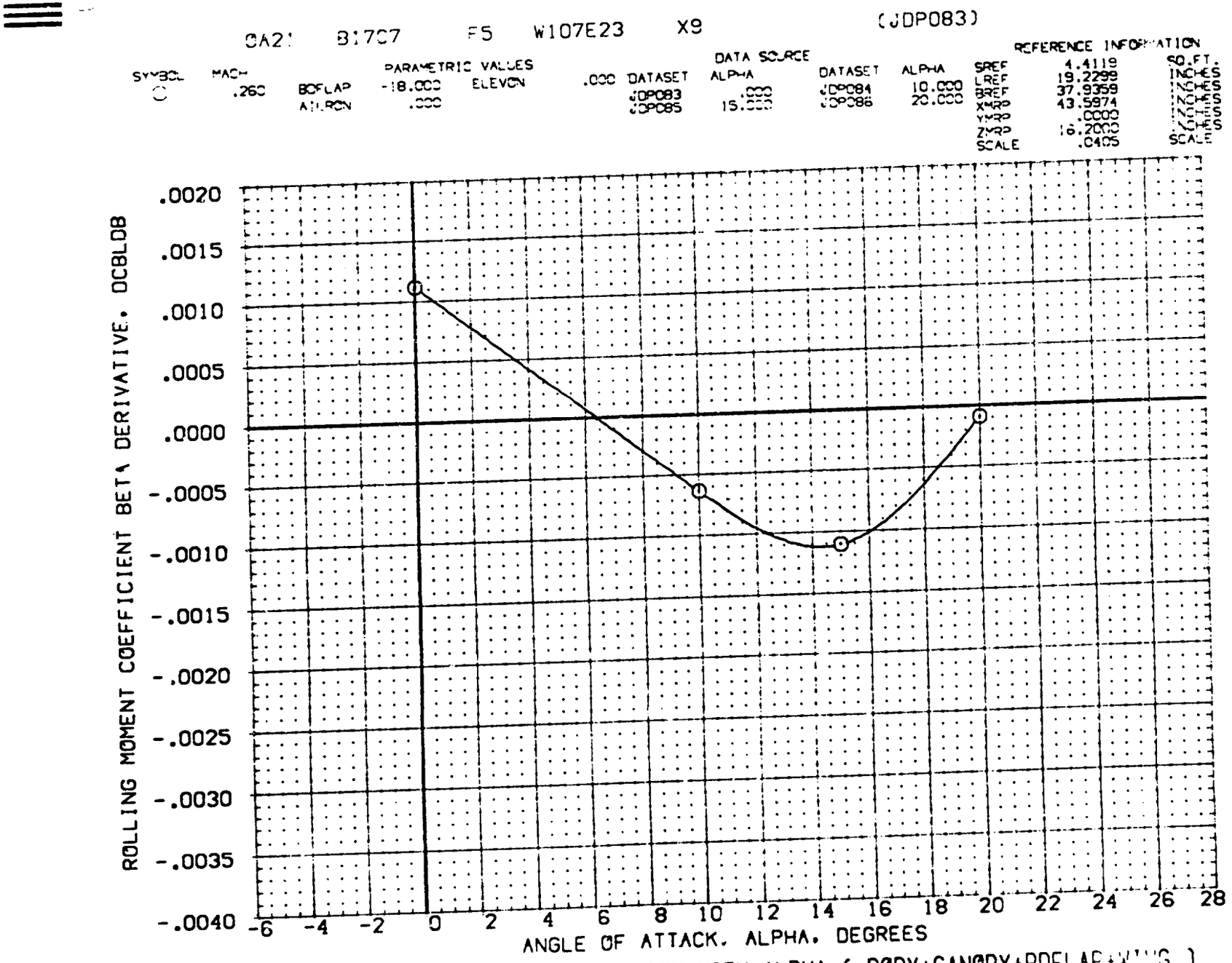


FIGURE 51 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING)

CA21 B17C7 F5 W107E23 X9 (JDPU83)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION	
○	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119 SQ.FT.
		AILRON	.000			JDPC83	.000	JDPC84	10.000	LREF	19.2299 INCHES
						JDPC85	15.000	JDPC86	20.000	BREF	37.9359 INCHES
										XMRP	43.5974 INCHES
										YMRP	.0000 INCHES
										ZMRP	16.2000 INCHES
										SCALE	.0405 SCALE

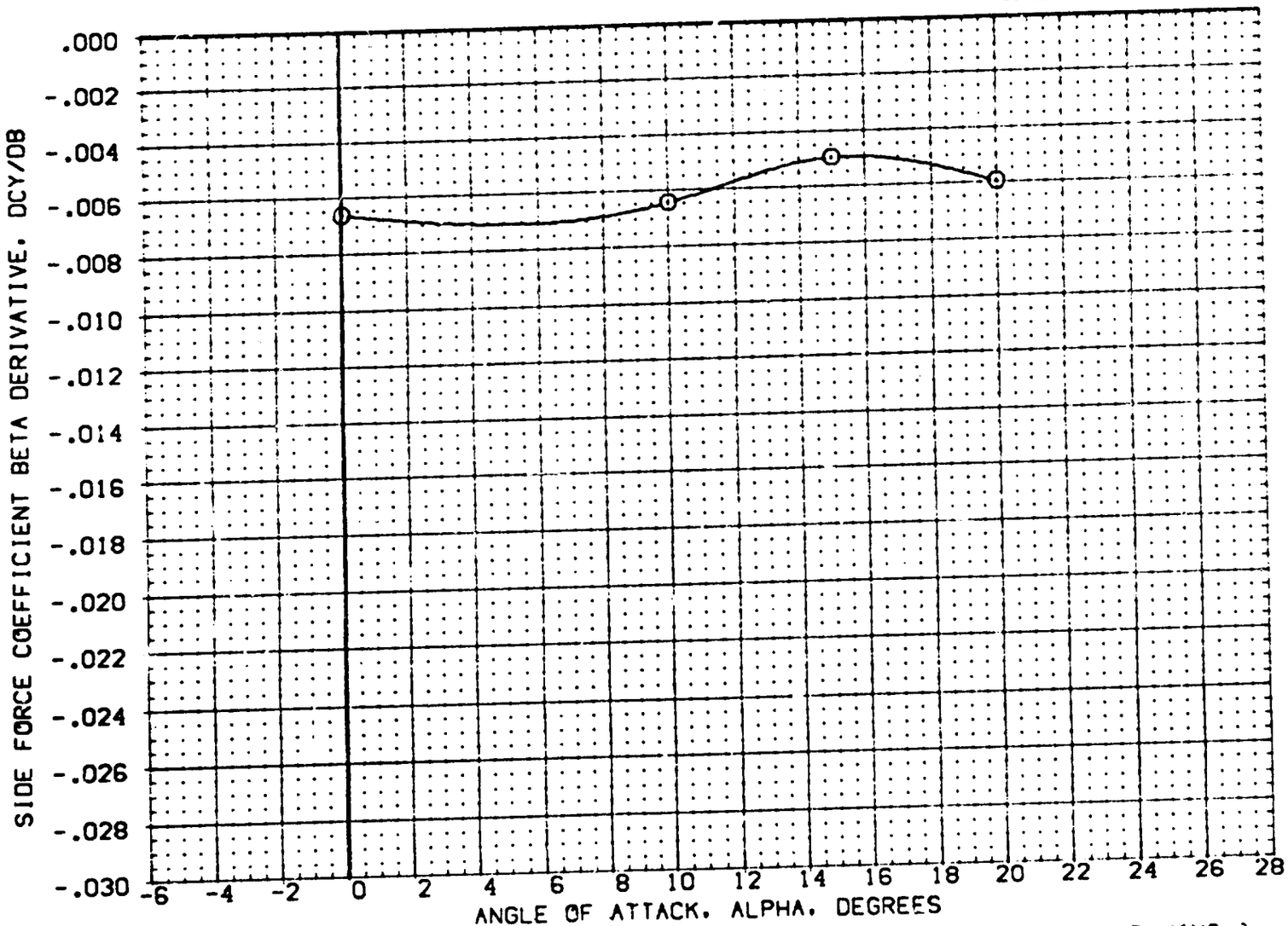


FIGURE 51 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING)

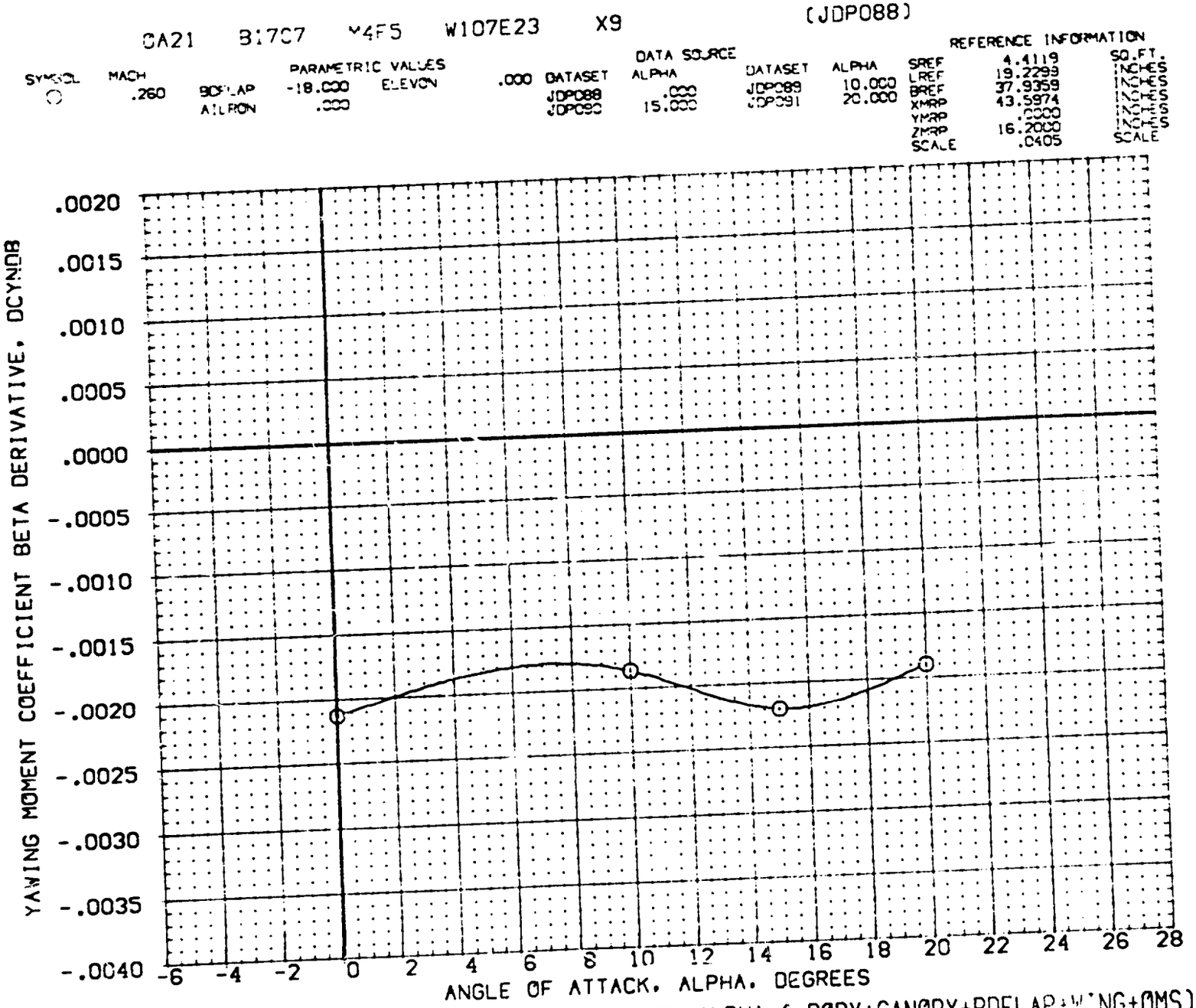


FIGURE 52 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING+OMS)

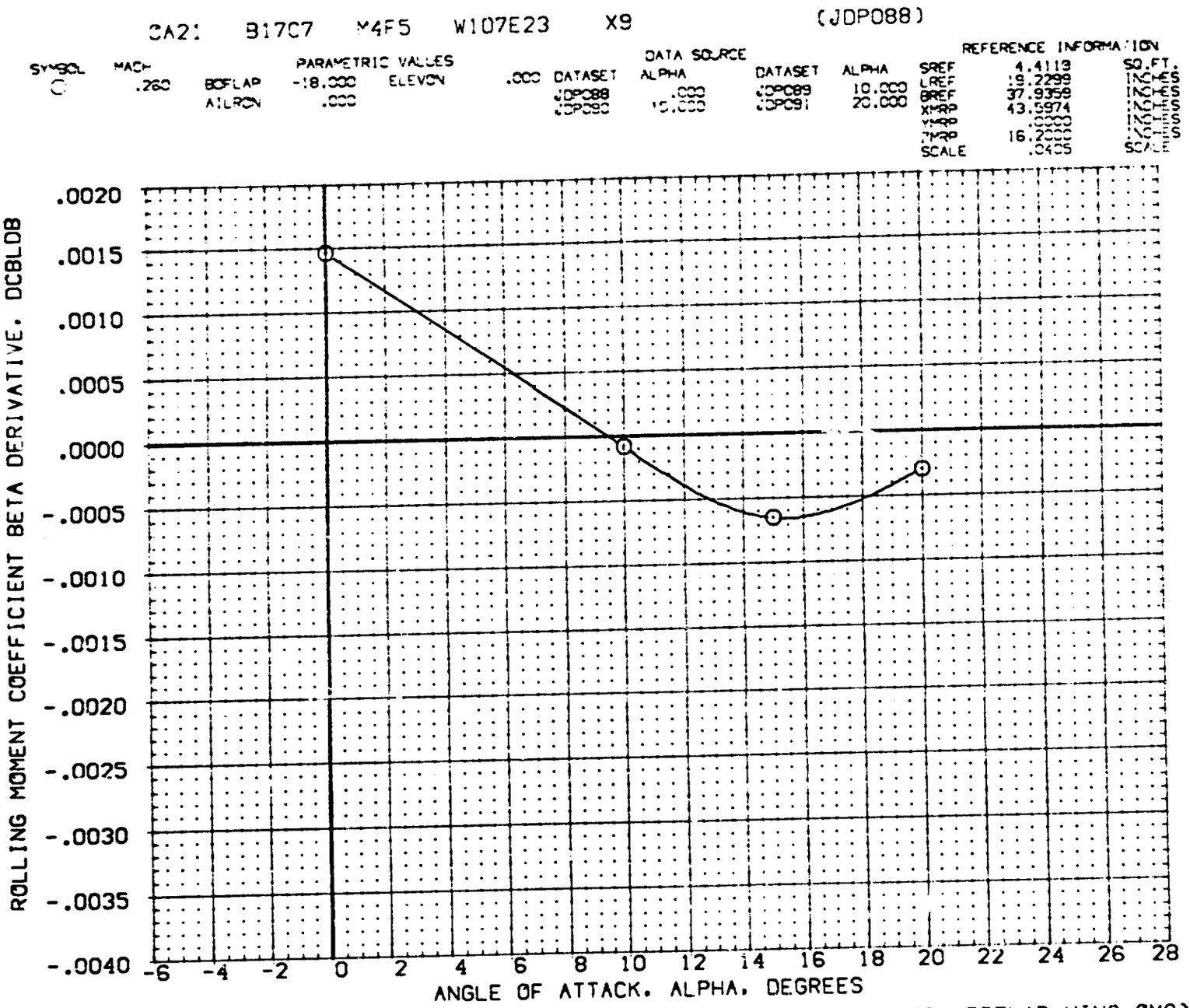


FIGURE 52 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING+OMS)

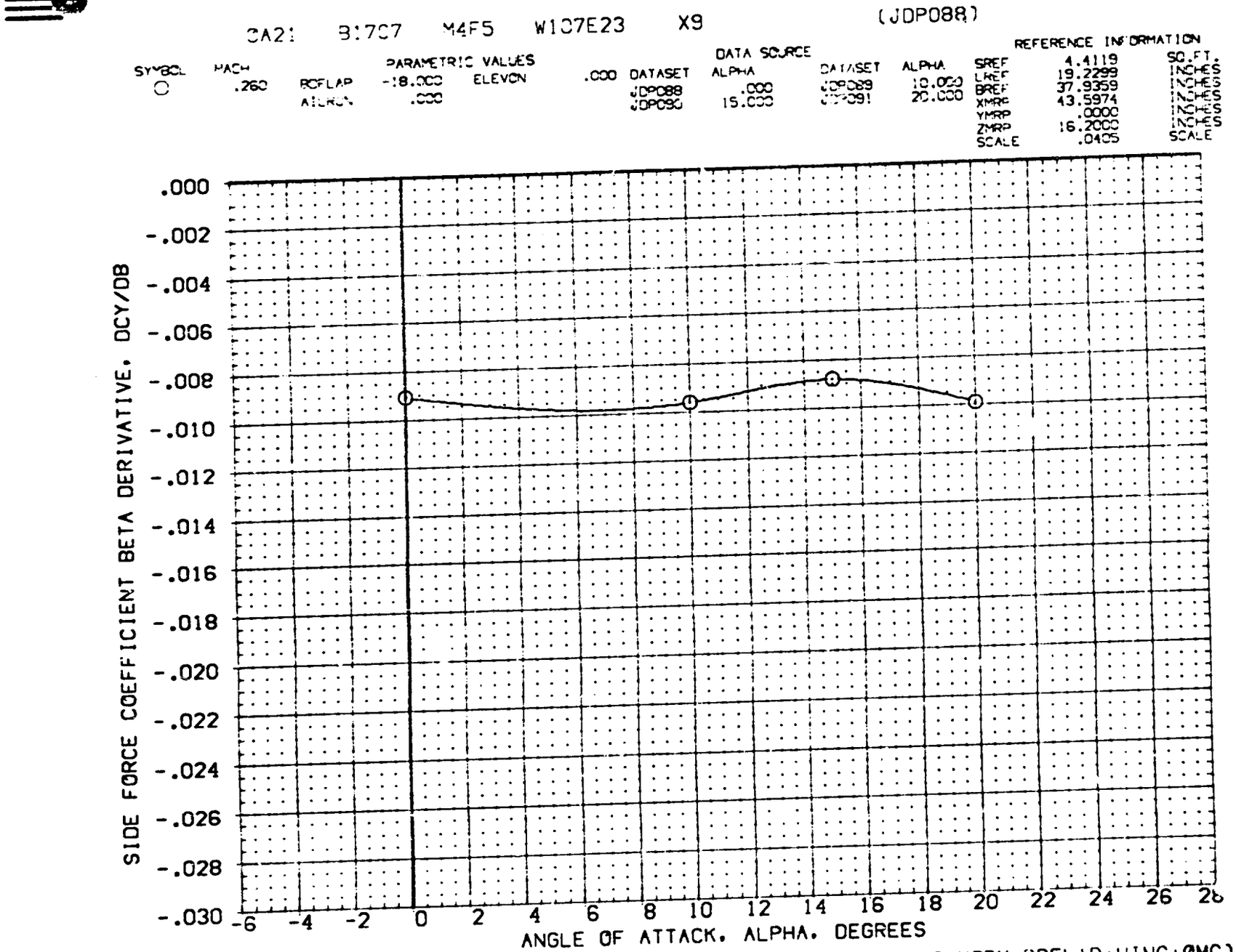


FIGURE 52 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (BODY+CANOPY+BDFLAP+WING+OMS)

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP010)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE			
						DATASET	ALPHA	DATASET	ALPHA
O	.260	RDFLAP	-18.000	ELEVON	.000	JDP010	.000	JDP011	10.000
		AILRON	.000	VTLINC	.000	JDP012	15.000	JDP013	20.000
		RUDDER	.000	SPOIPK	.000				

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

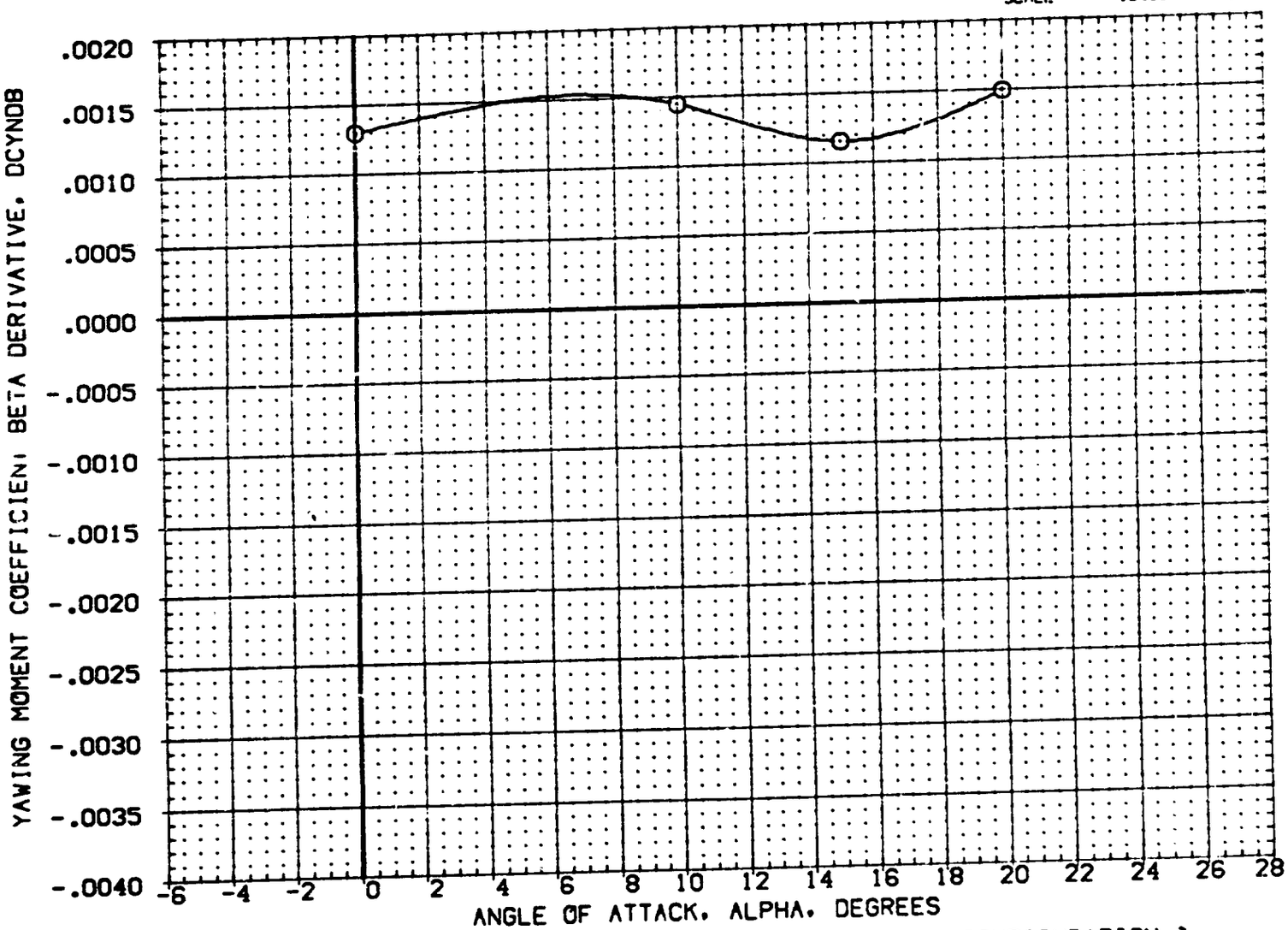


FIGURE 53 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (TOTAL CONFIGURATION)

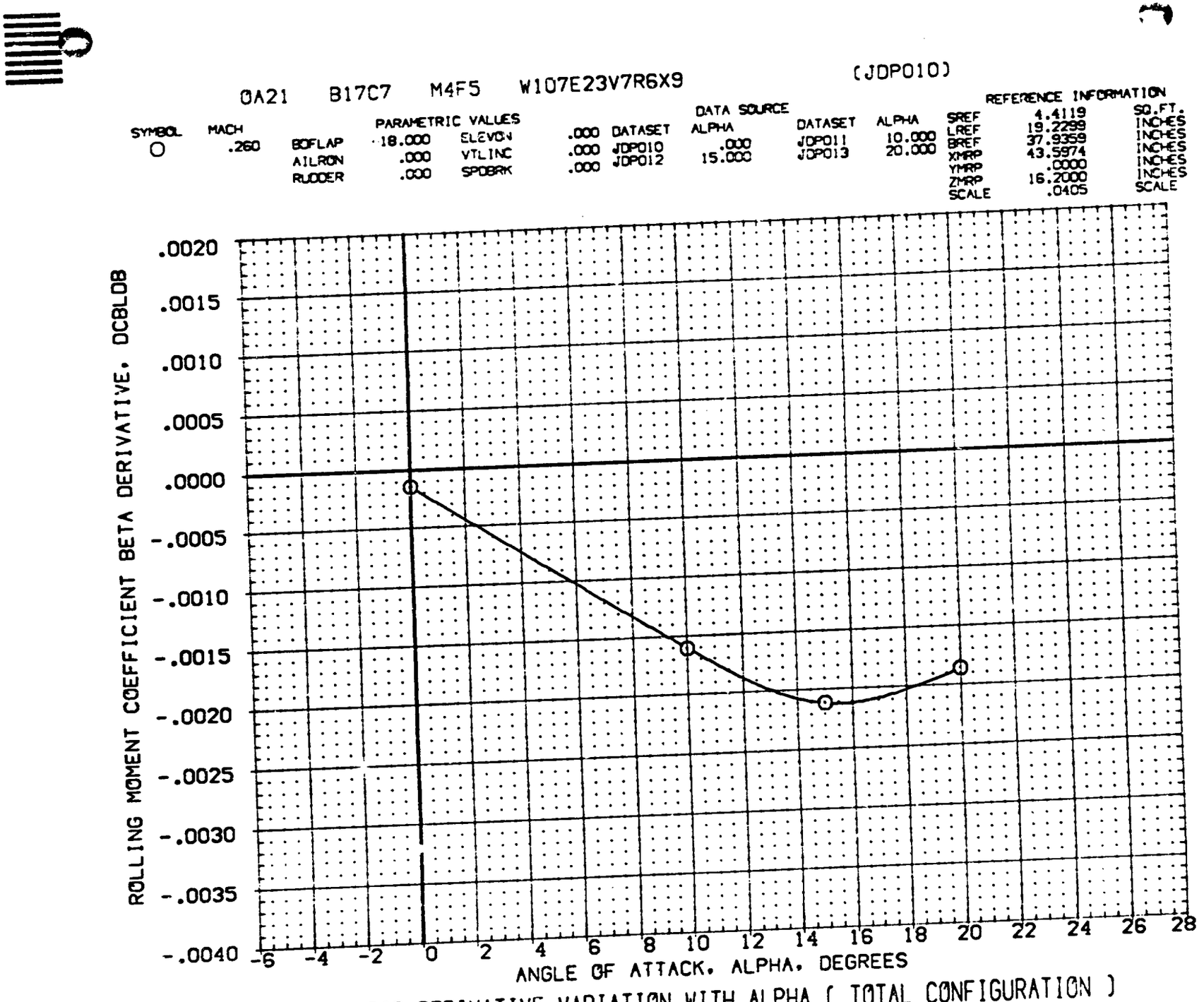


FIGURE 53 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (TOTAL CONFIGURATION)

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP010)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP010	.000	JDP011	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPOBRK	.000	JDP012	15.000	JDP013	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

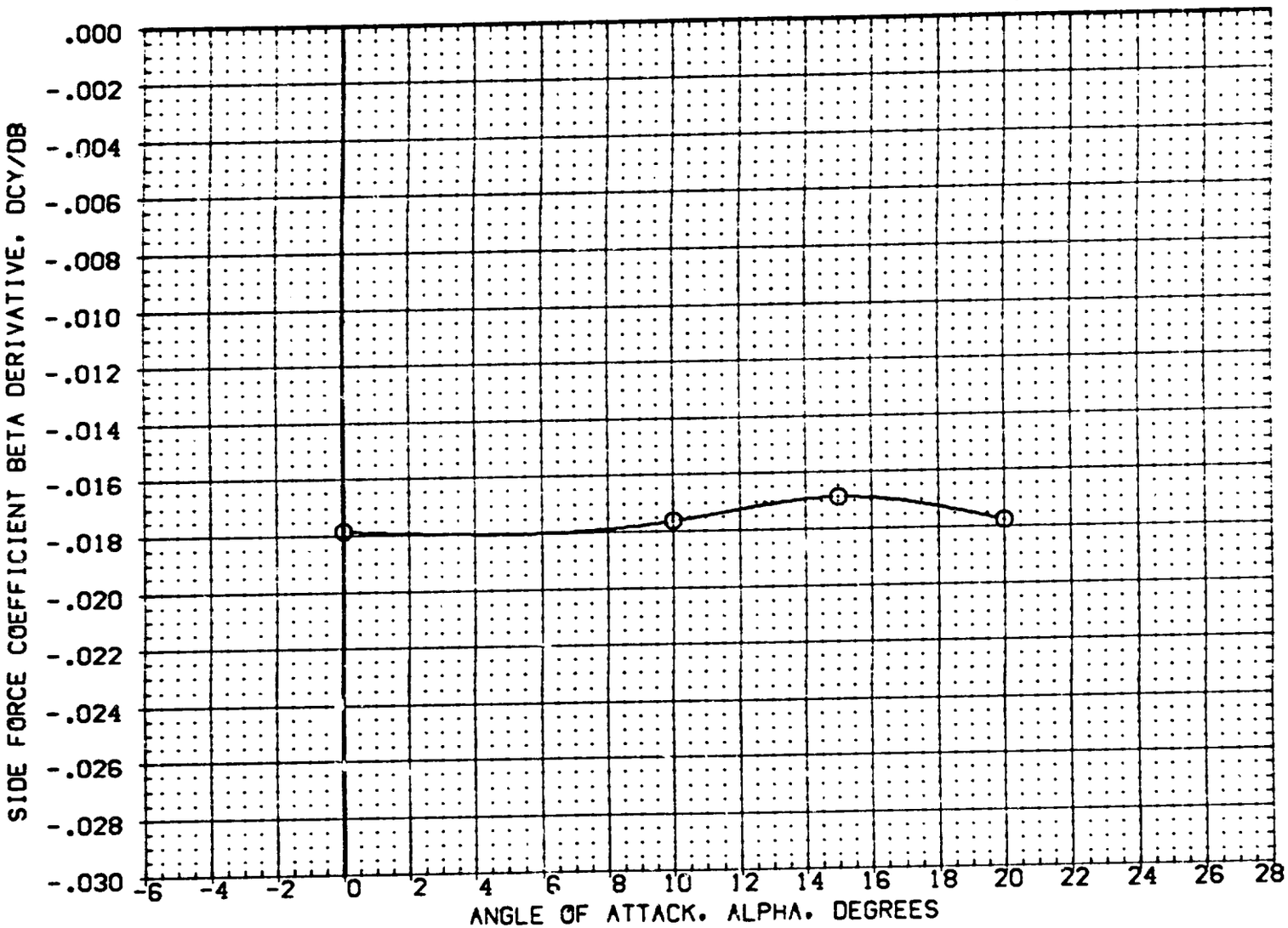


FIGURE 53 LAT/DIR DERIVATIVE VARIATION WITH ALPHA (TOTAL CONFIGURATION)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPDBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

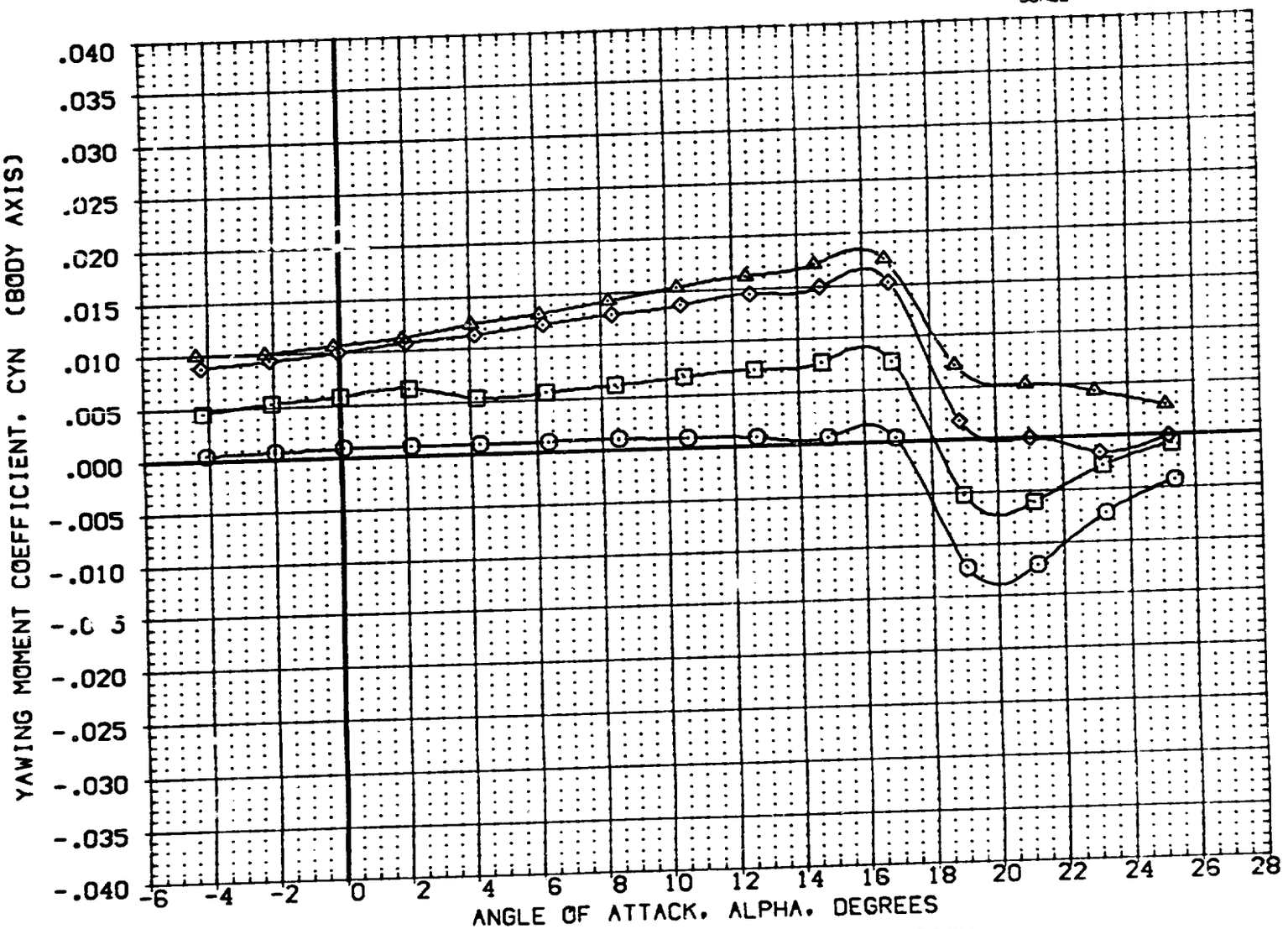


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP068)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP069)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROPU70)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BDFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

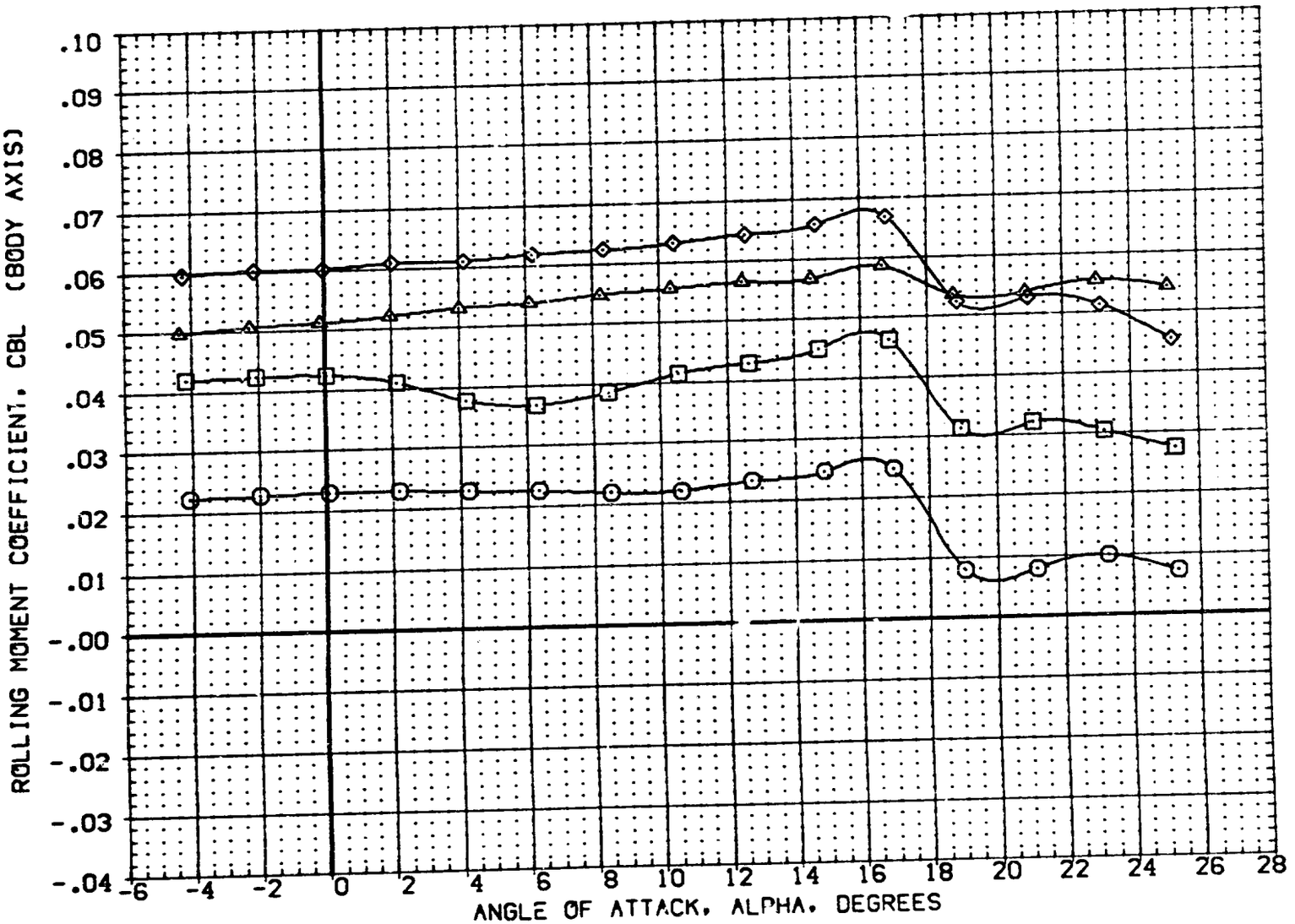


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP068)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP071)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ELEVON	AILRON	BOFLAP	SPOBRK
10.000	5.000	-18.000	55.000
5.000	10.000	-18.000	55.000
.000	15.000	-18.000	55.000
-10.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

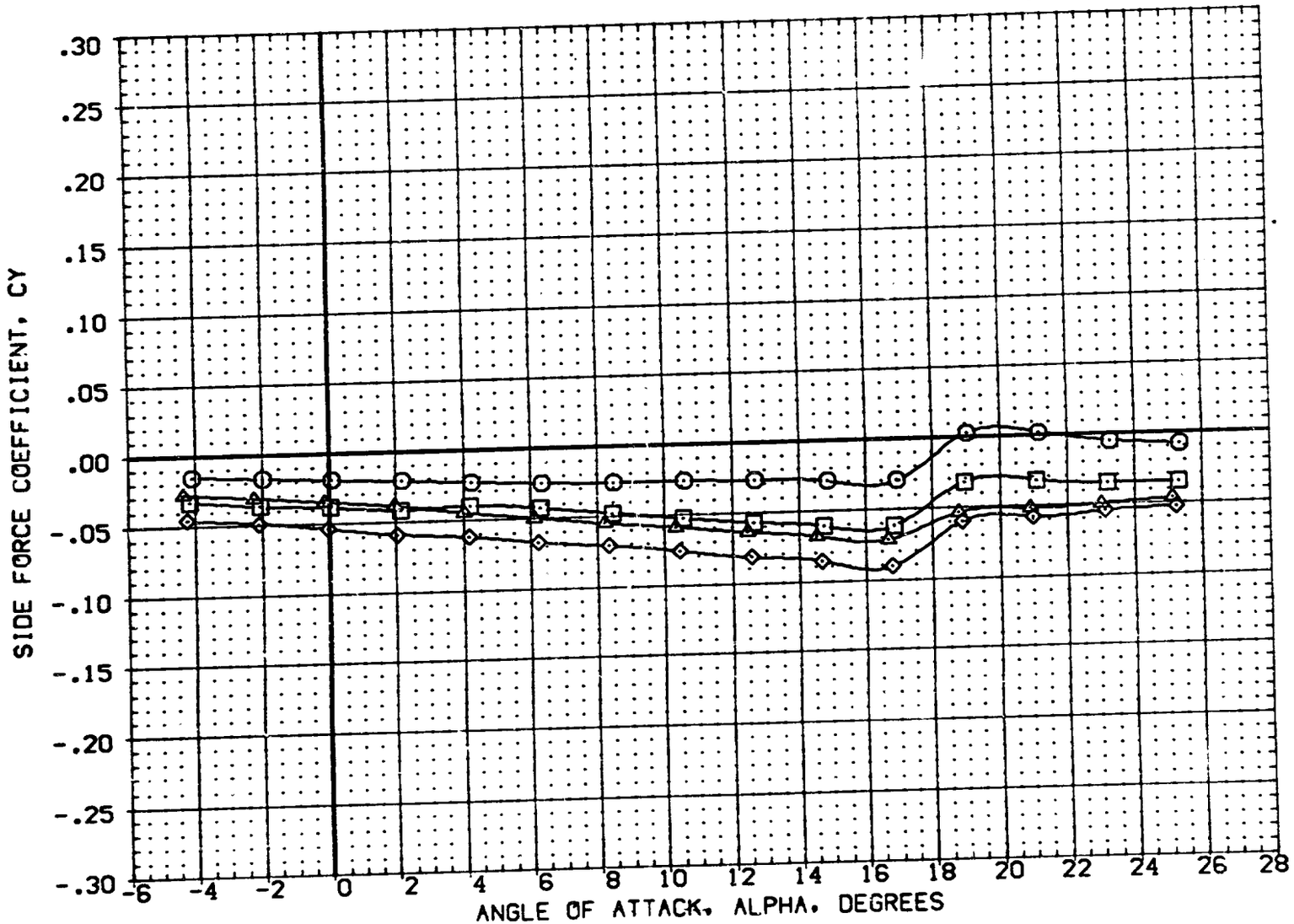


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(NDP068)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(NDP069)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(NDP070)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

MAXAIL	DELAIL	BOFLAP	SPOBRK
5.000	5.000	-18.000	55.000
10.000	10.000	-18.000	55.000
15.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

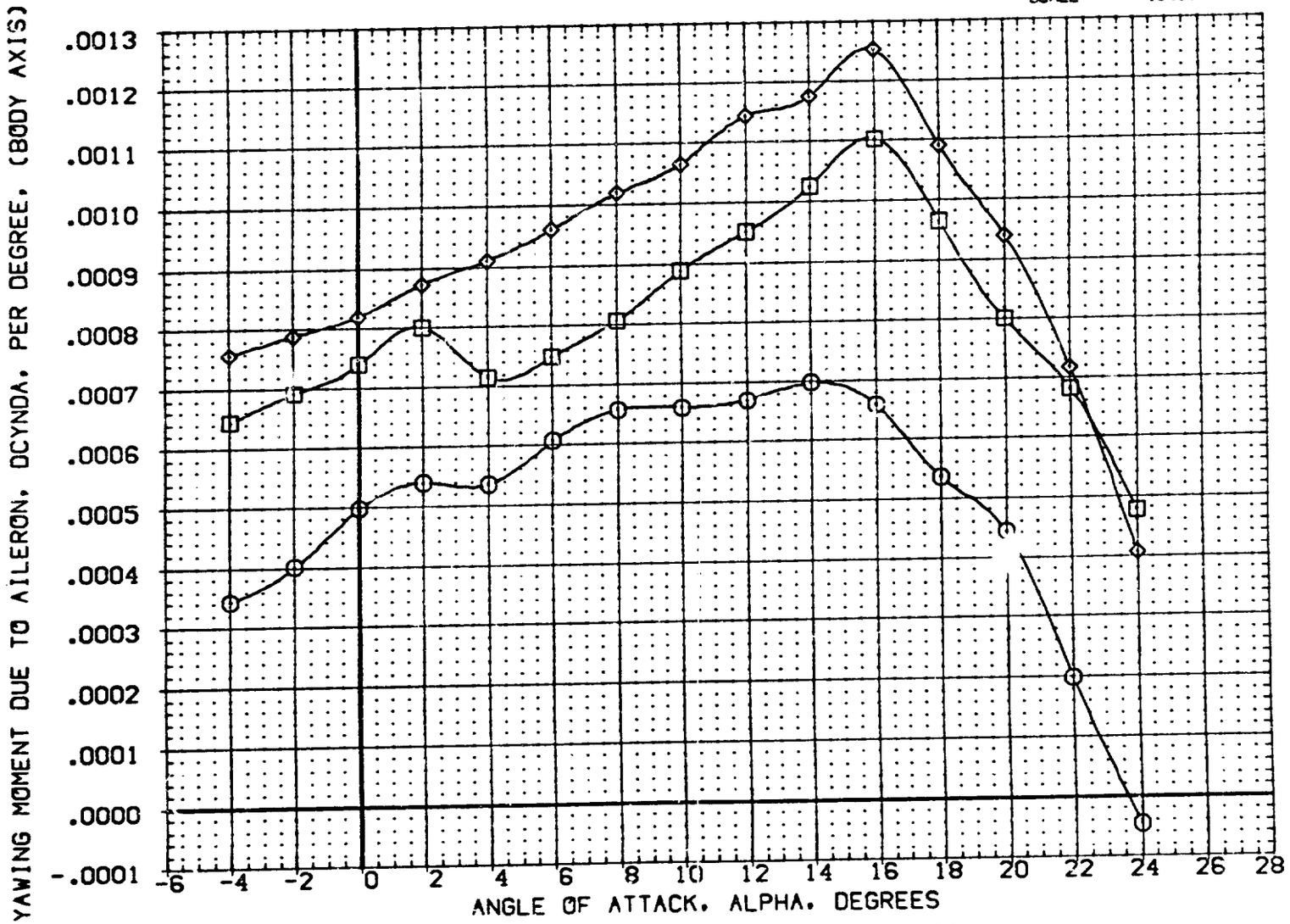


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(NOP068)	○	BA21	B17C7	M4F5	W107E23V7R6X9
(NOP069)	□	BA21	B17C7	M4F5	W107E23V7R6X9
(NOP070)	◇	BA21	B17C7	M4F5	W107E23V7R6X9

MAXAIL	DELAIL	BOFLAP	SPOBRK
5.000	5.000	-18.000	55.000
10.000	10.000	-18.000	55.000
15.000	15.000	-18.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

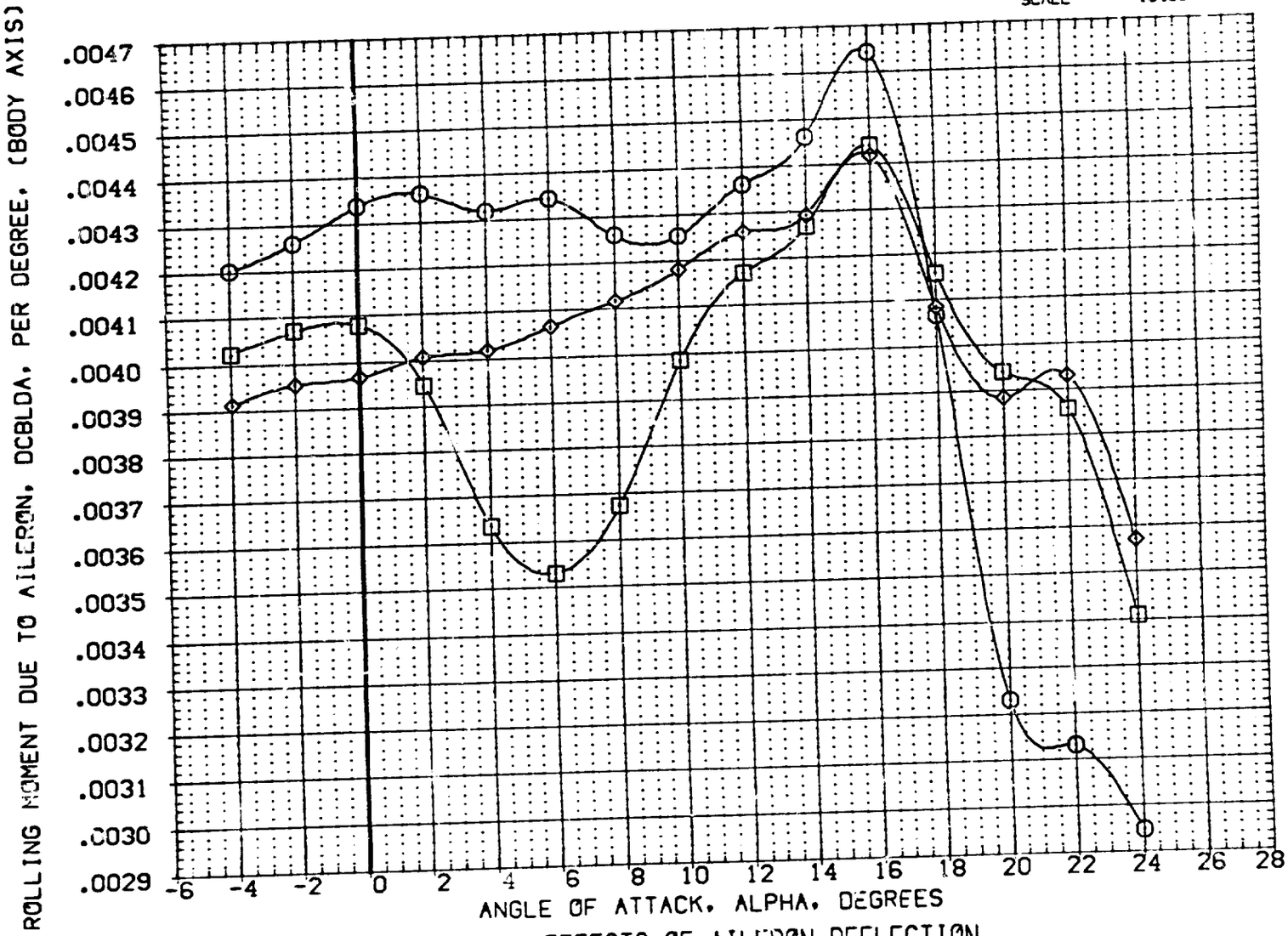


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(NOP038)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(NOP069)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(NOP070)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

MAXAIL	DELAIL	BOFLAP	SPOBRK
5.000	5.000	-18.000	85.000
15.000	15.000	-18.000	85.000
15.000	15.000	-18.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

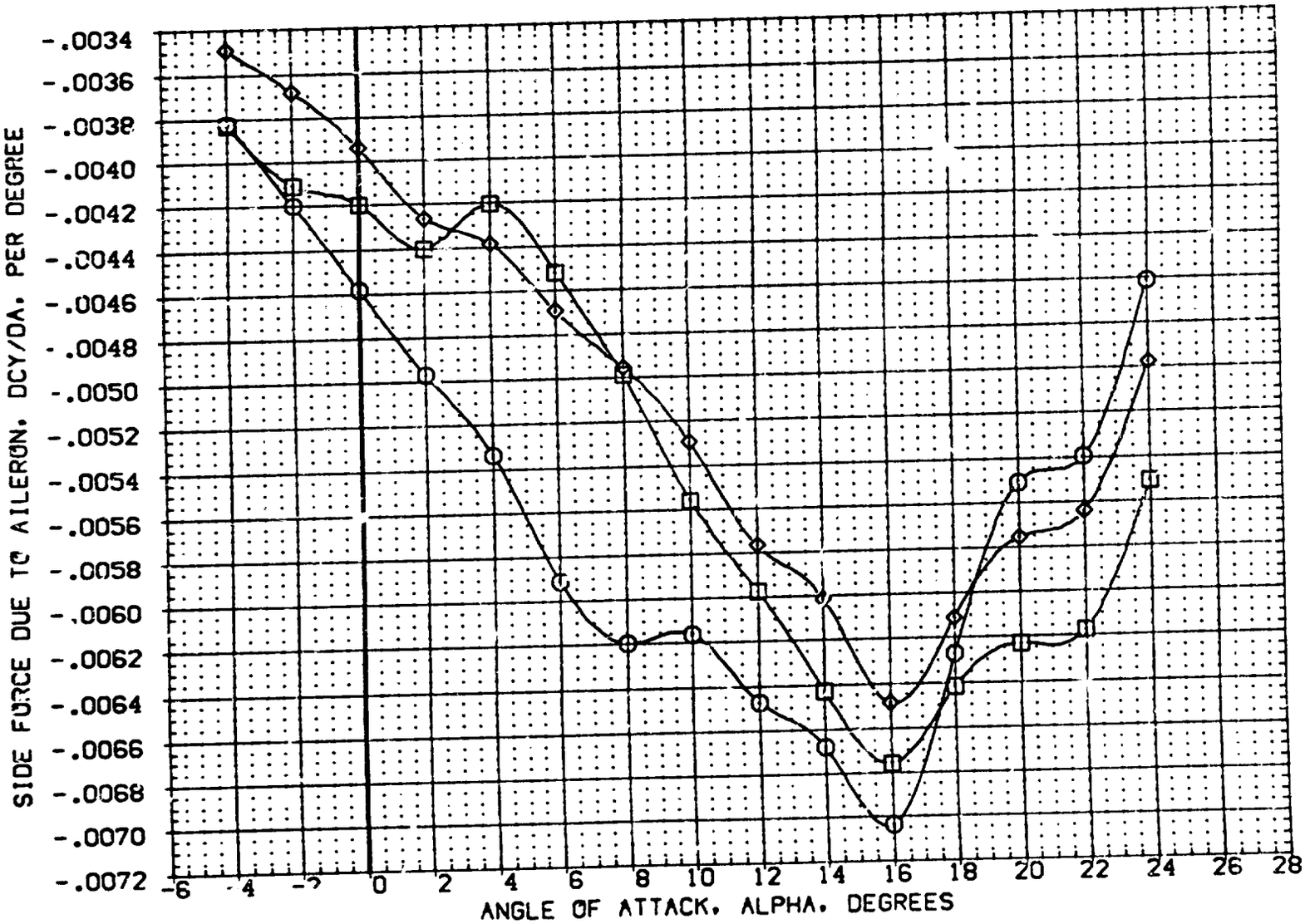


FIGURE 54 LATERAL/DIRECTIONAL EFFECTS OF AILERON DEFLECTION

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	AILRON	RUDDER	SPDBRK
(RDP013)	○	0A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	.000	.000
(RDP014)	□	0A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	-7.500	.000
(RDP018)	◇	0A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

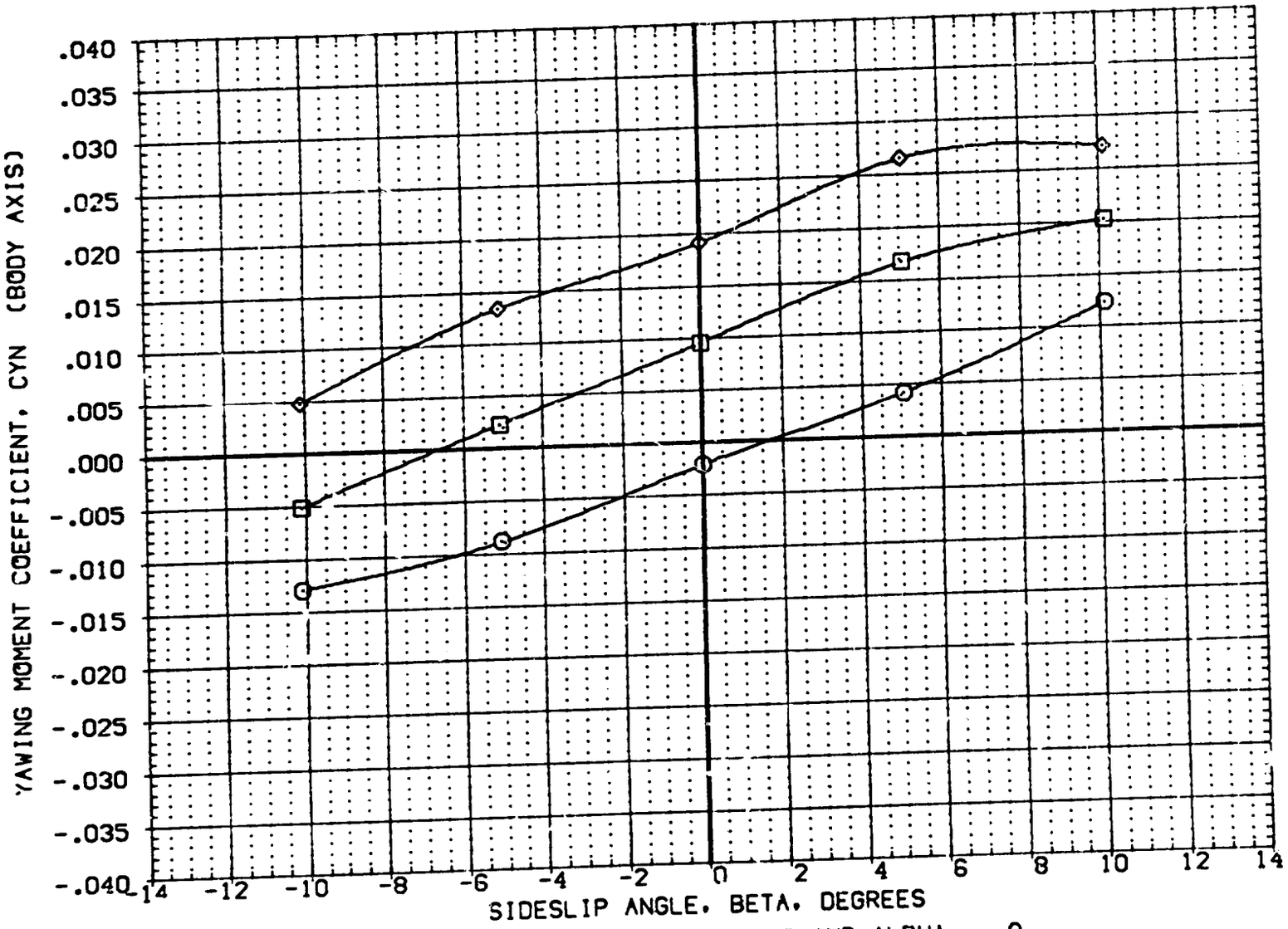


FIGURE 55 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	AILRON	RUDDER	SPDBRK
(RDP010)	□	(A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	.000	.000
(RDP014)	◁□	0A21	617C7	M4F5	V107E23V7R6X9	.000	.000	-7.500	.000
(RDP018)	◇	0A21	B17C7	M4F5	V107E23V7R6X9	.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

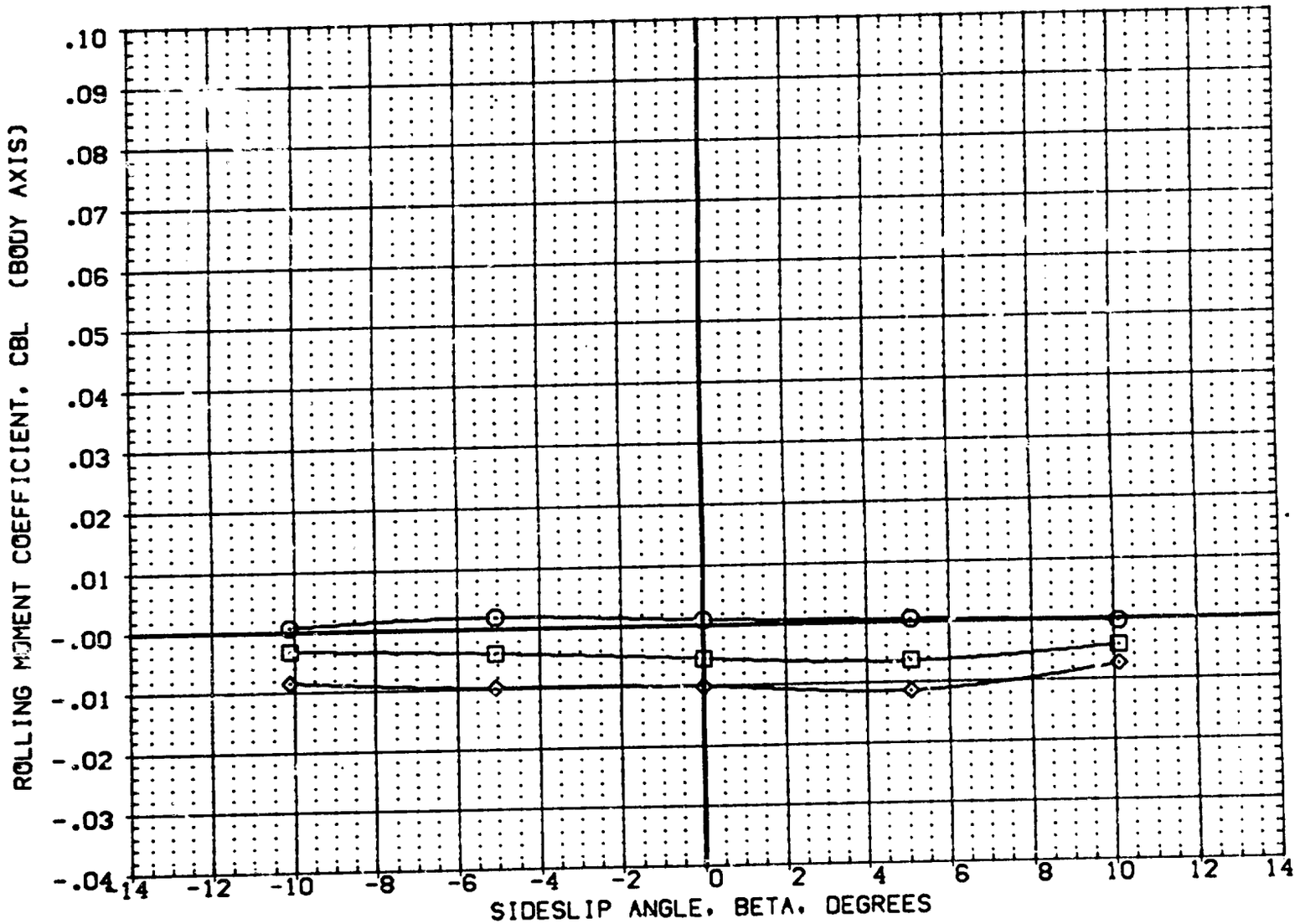


FIGURE 55 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP010)	○	CA21	B17C7	M4F5	W107E23V7R6X9
(ROP014)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP018)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	.000
.000	.000	-7.500	.000
.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2600	INCHES
SCALE	.0405	SCALE

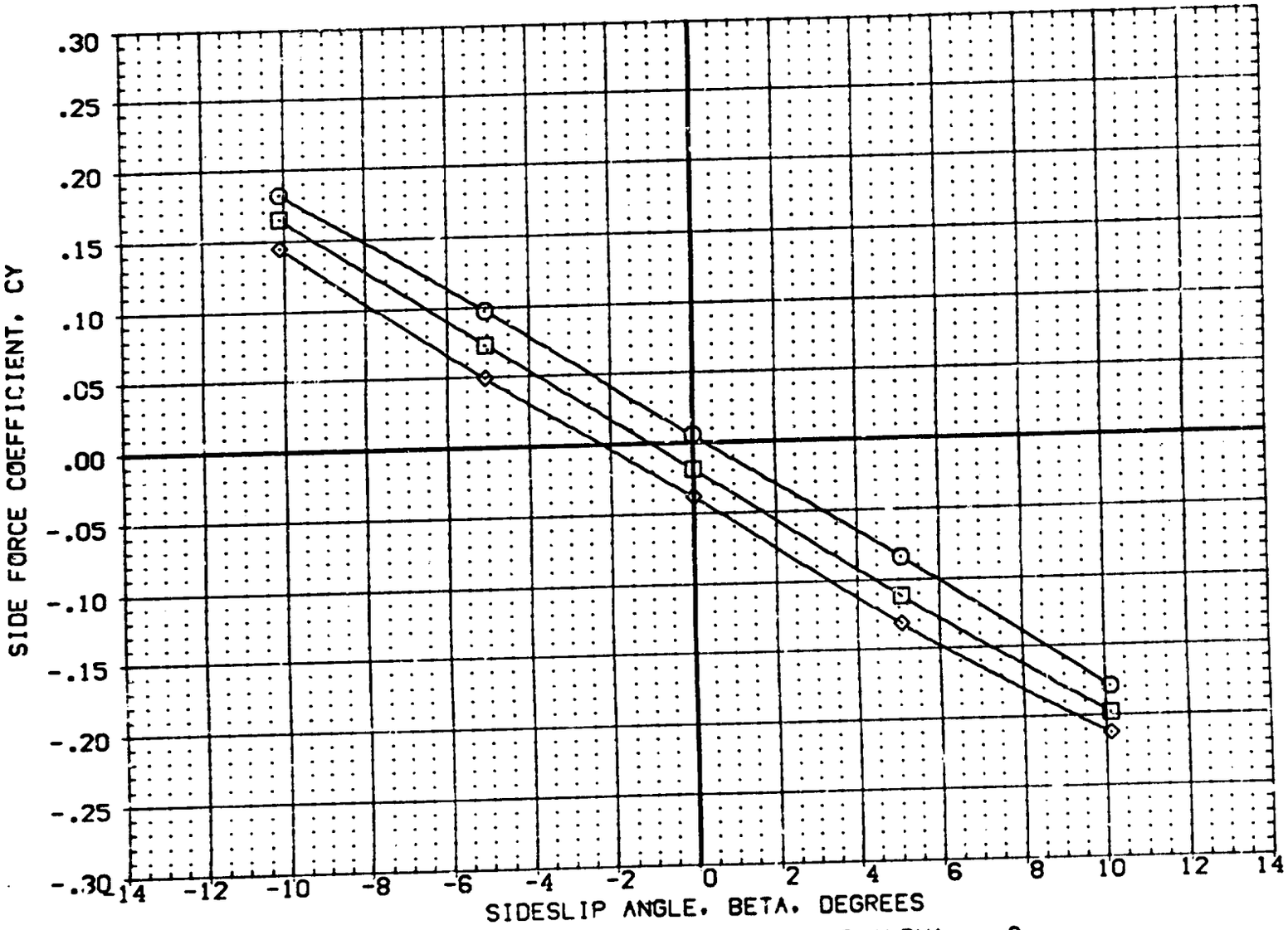


FIGURE 55 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(SOPO11)	○	DA21	B17C7	M4F5	V107E23V7R6X9
(ROPO15)	□	DA21	B17C7	M4F5	V107E23V7R6X9
(ROPO19)	◇	DA21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	.000
10.000	.000	-7.500	.000
10.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

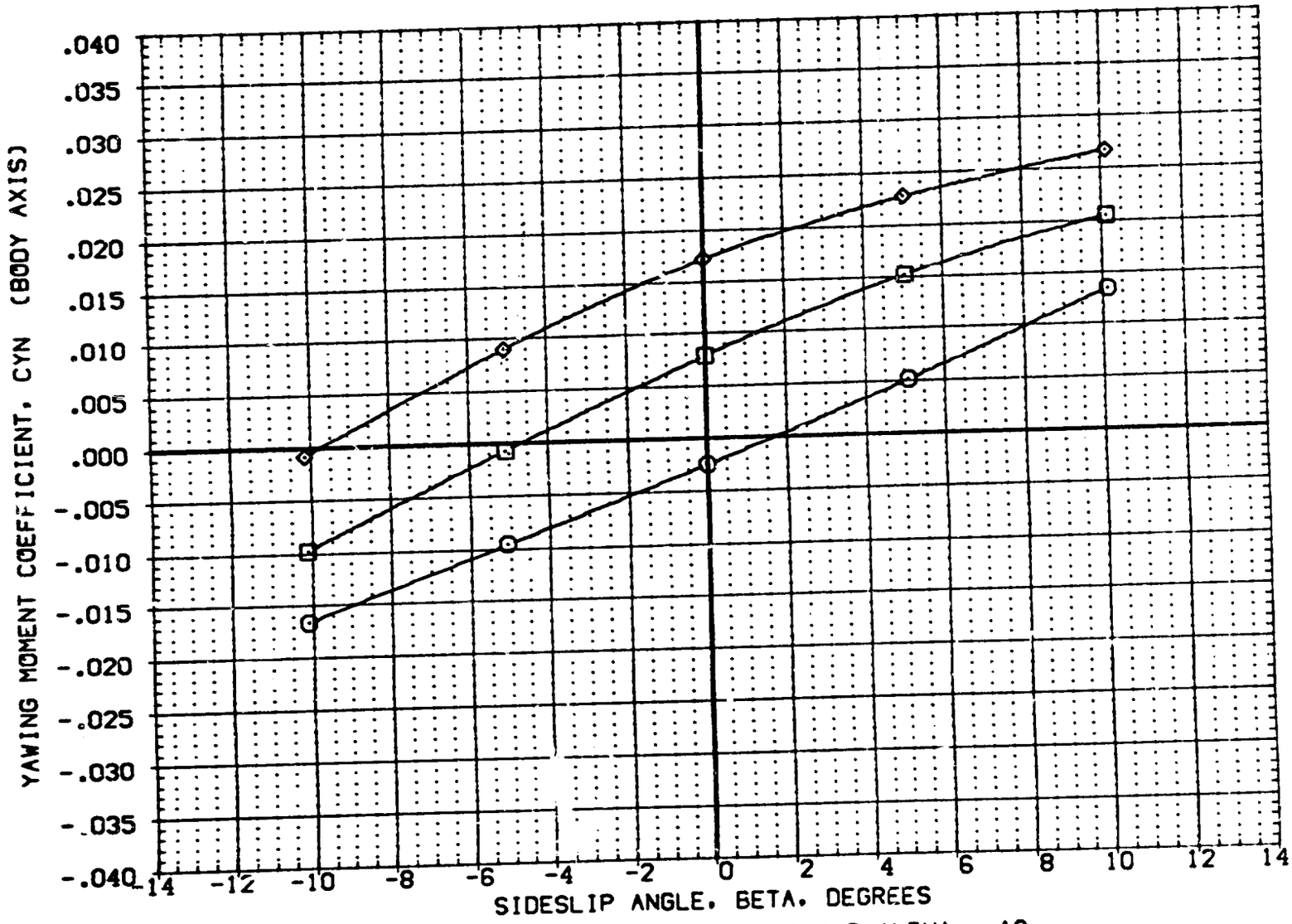


FIGURE 56 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP011)	□	BA21	B17C7	M4F5	W107E23V7R6X9
(ROP015)	▽	BA21	B17C7	M4F5	W107E23V7R6X9
(ROP019)	◇	BA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	.000
10.000	.000	-7.500	.000
10.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

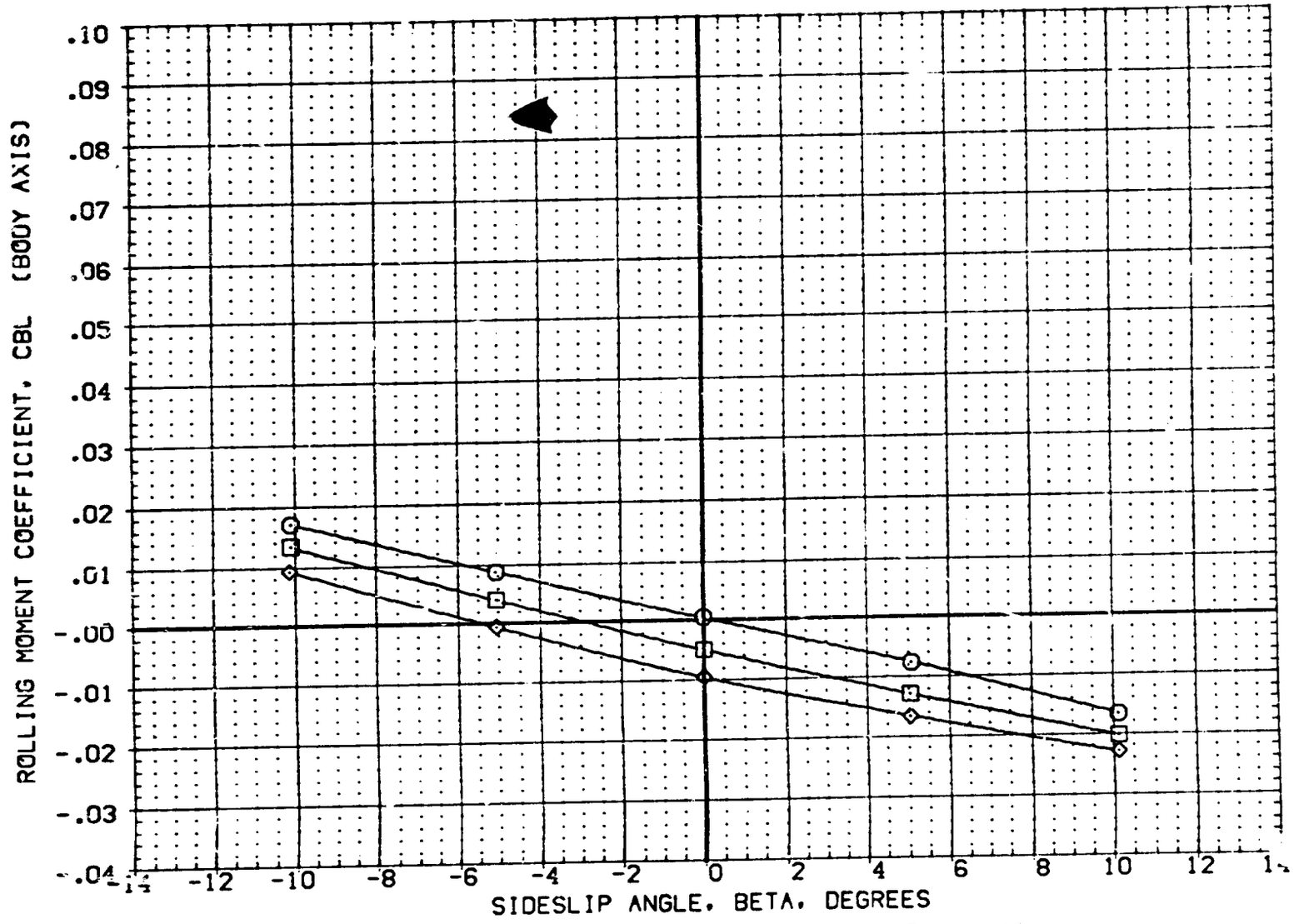


FIGURE 56 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP011)	□	0A21	B17C7	M4F3	V107E23V7R6X9
(ROP015)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP019)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	.000
10.000	.000	-7.500	.000
10.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

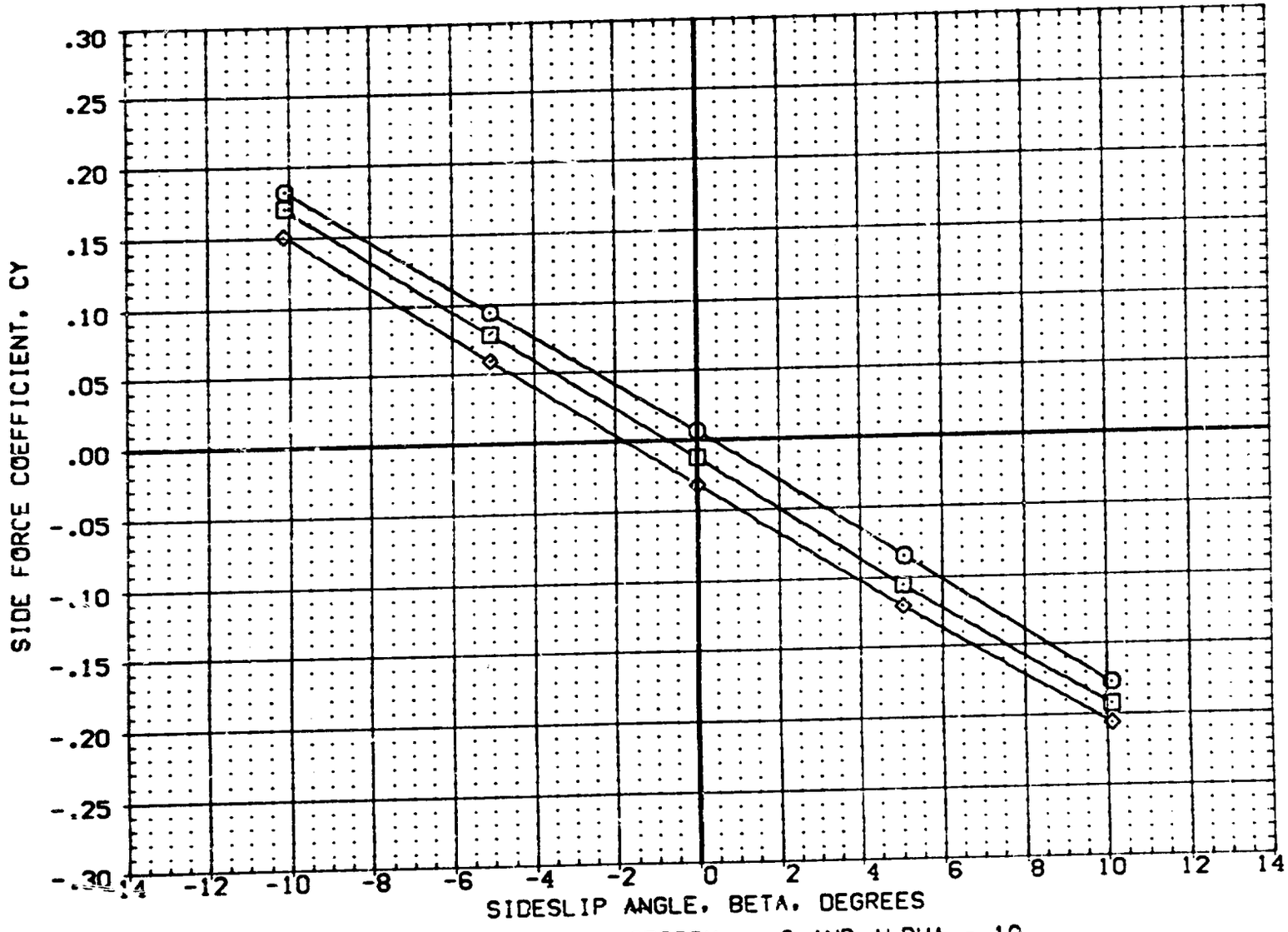


FIGURE 56 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROPO12)	○	0A21	B17C7	M4F5	W107E23V7RGX9
(ROPO16)	□	0A21	B17C7	M4F5	W107E23V7RGX9
(ROPO20)	◇	0A21	B17C7	M4F5	W107E23V7RGX9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	.000
15.000	.000	-7.500	.000
15.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

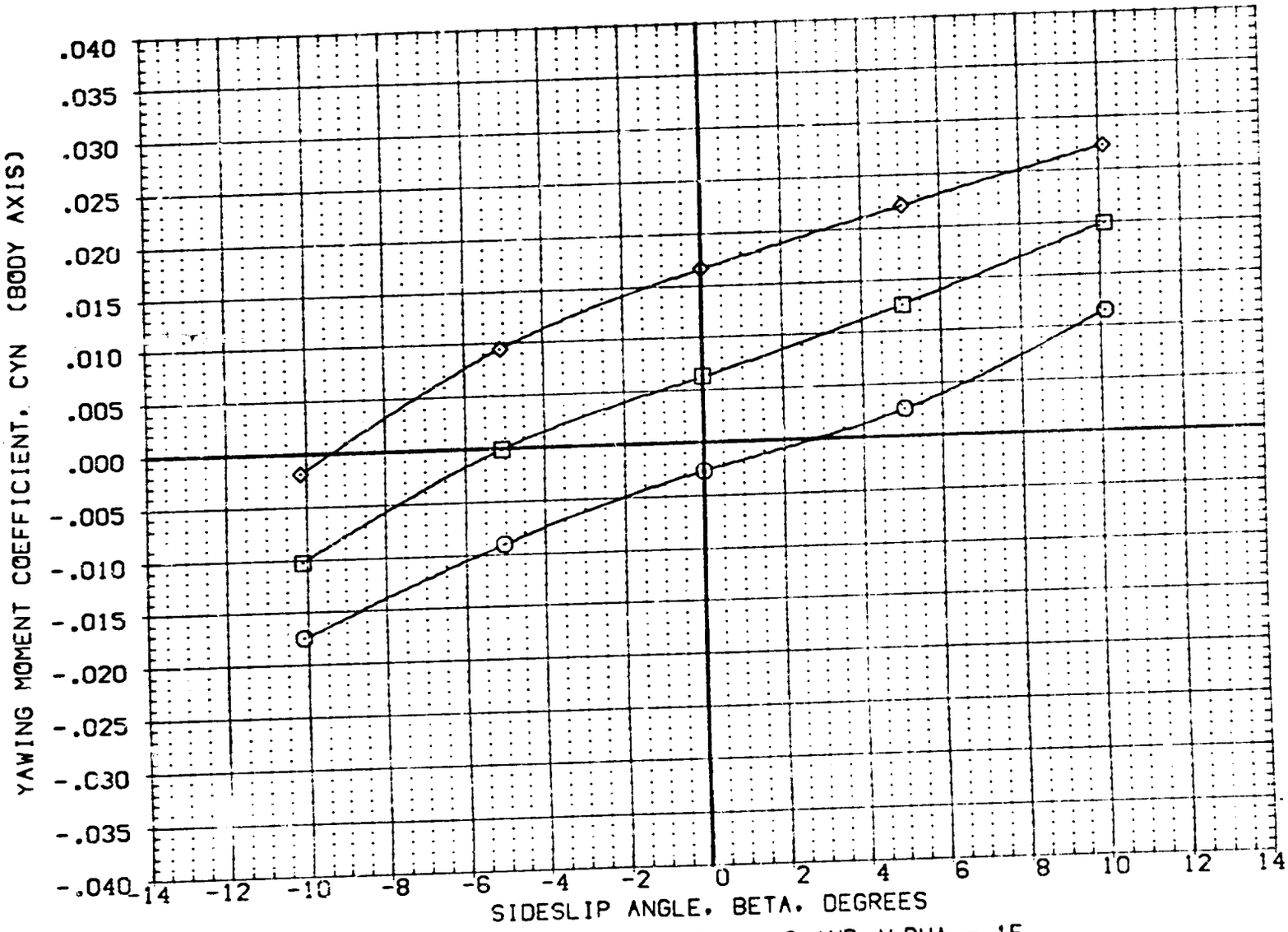


FIGURE 57 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 15

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION				
(RDP012)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP016)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP020)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	.000
15.000	.000	-7.500	.000
15.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

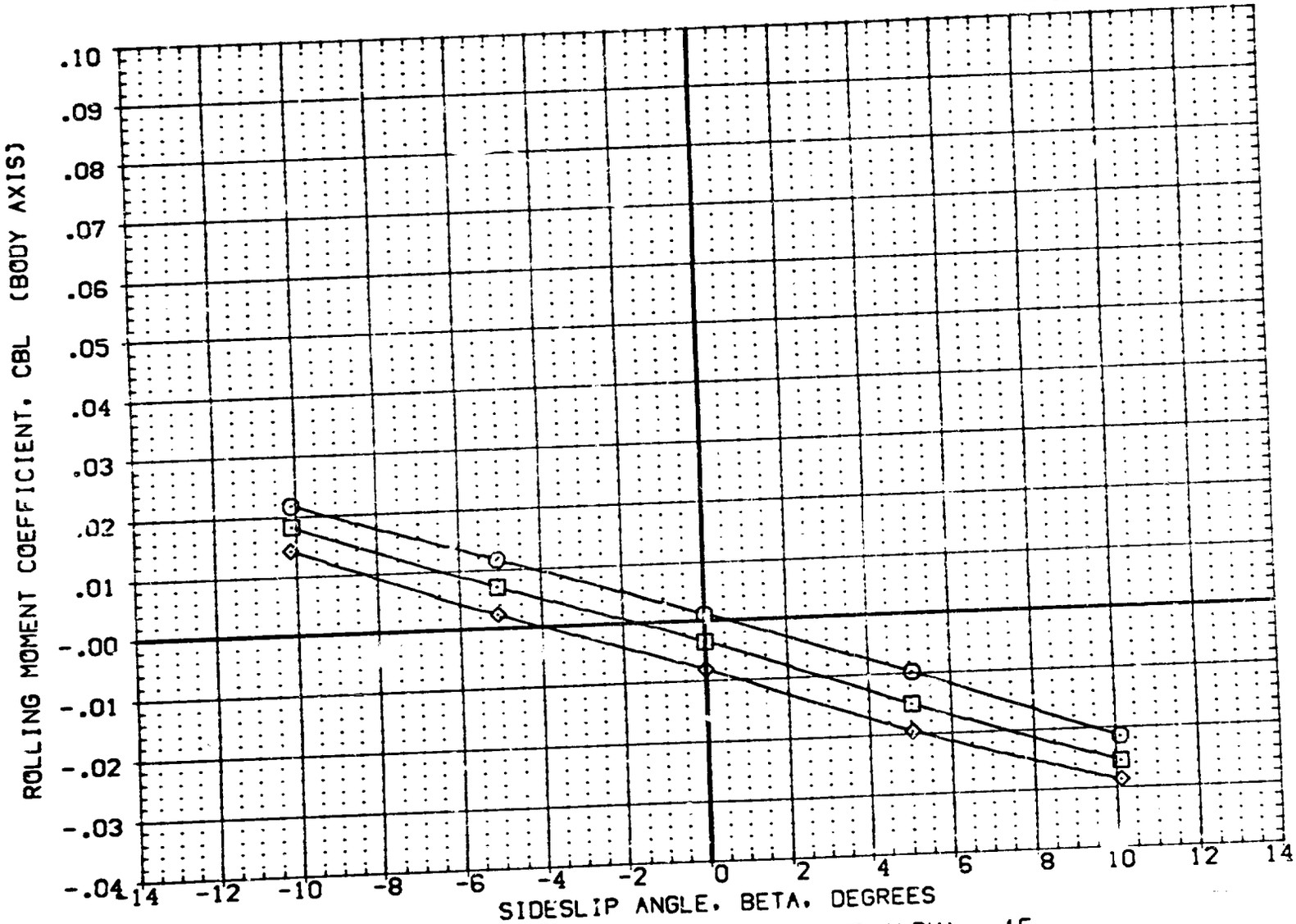


FIGURE 57 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP012)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP016)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP020)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILPOS	RUDDER	SPDBRK
15.000	.000	.000	.000
15.000	.000	-7.500	.000
15.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

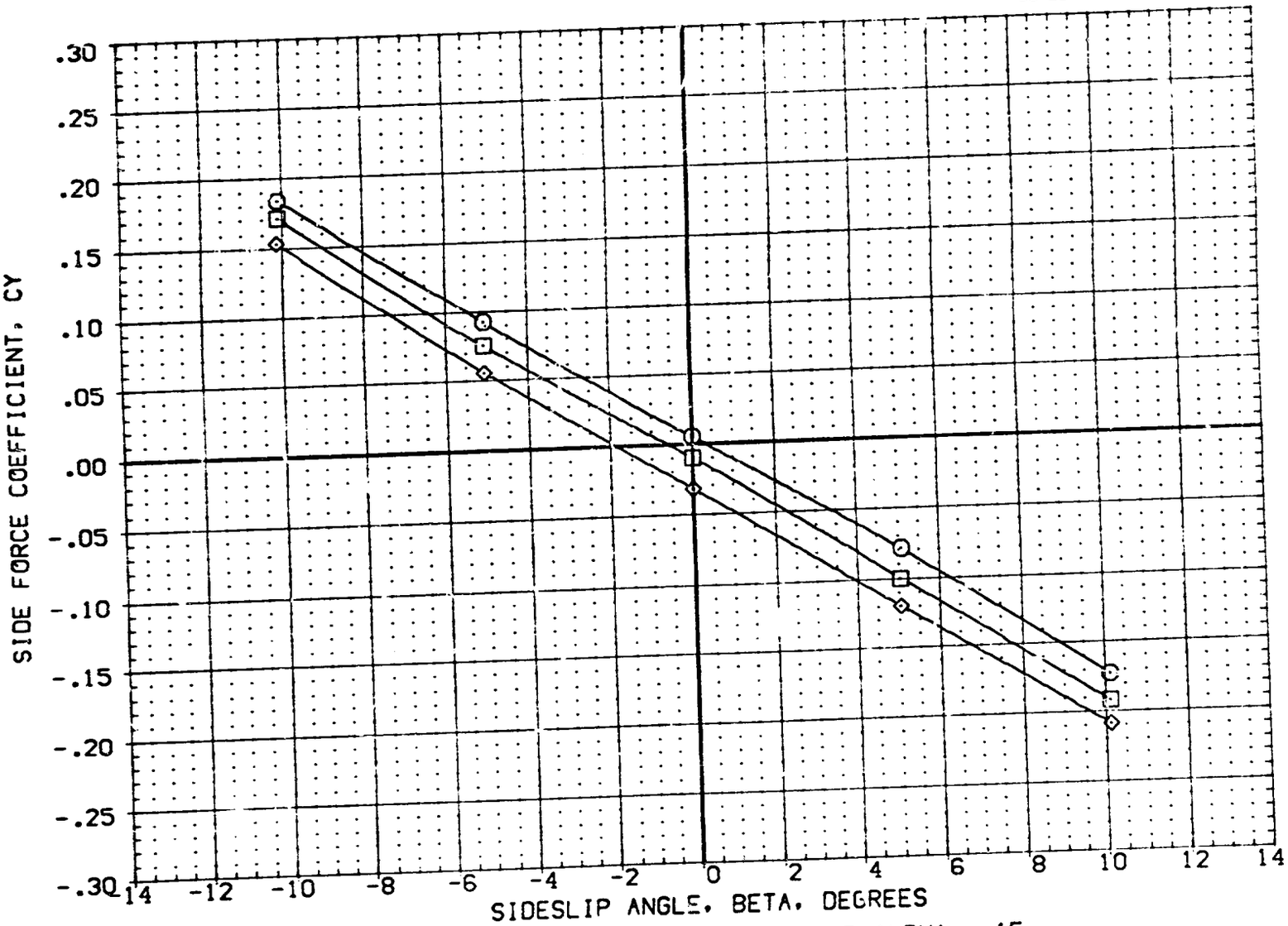


FIGURE 57 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[RDP013]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[RDP017]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[RDP021]	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	.000
20.000	.000	-7.500	.000
20.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

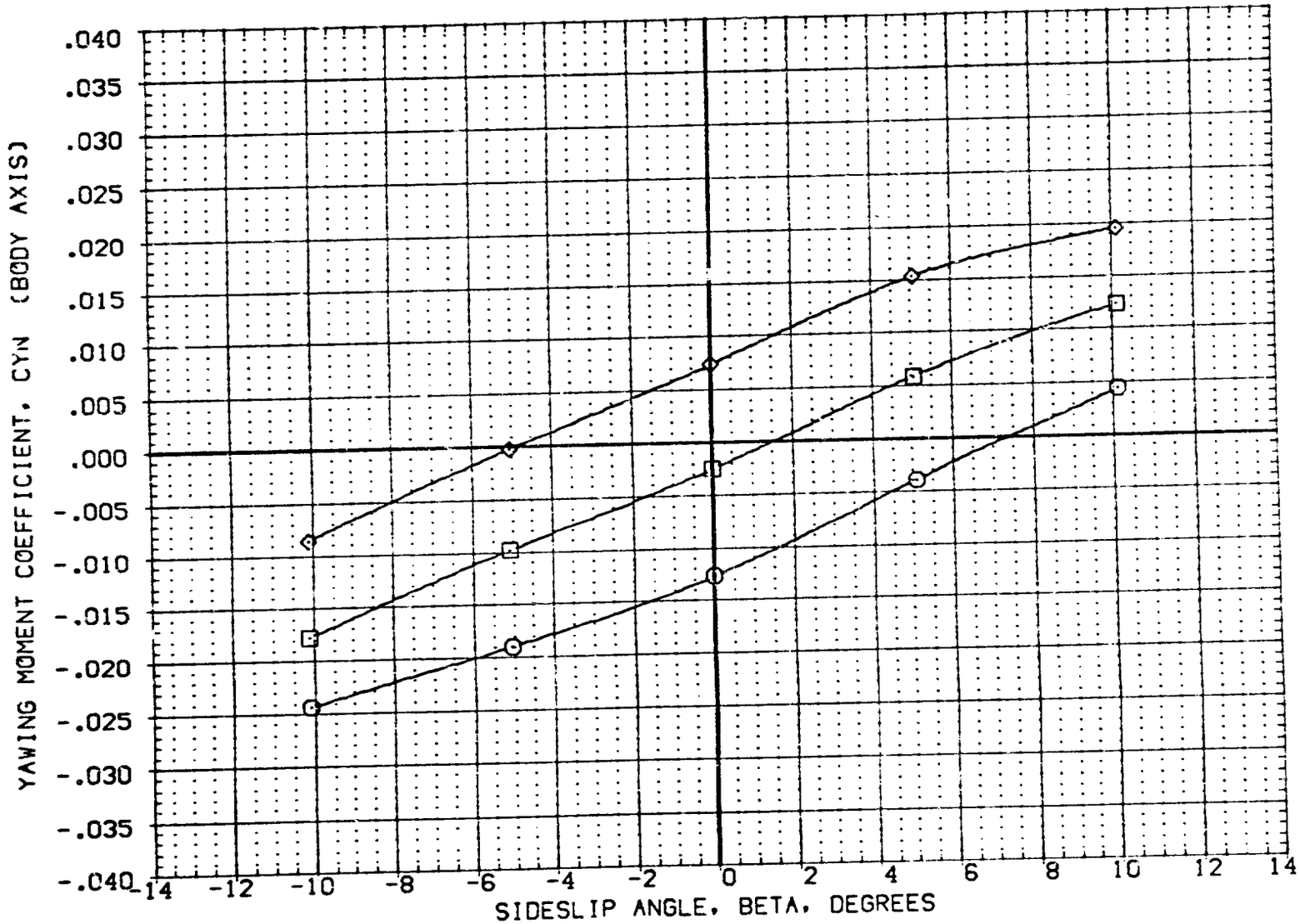


FIGURE 58 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP013)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP017)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP021)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	.000
20.000	.000	-7.500	.000
20.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

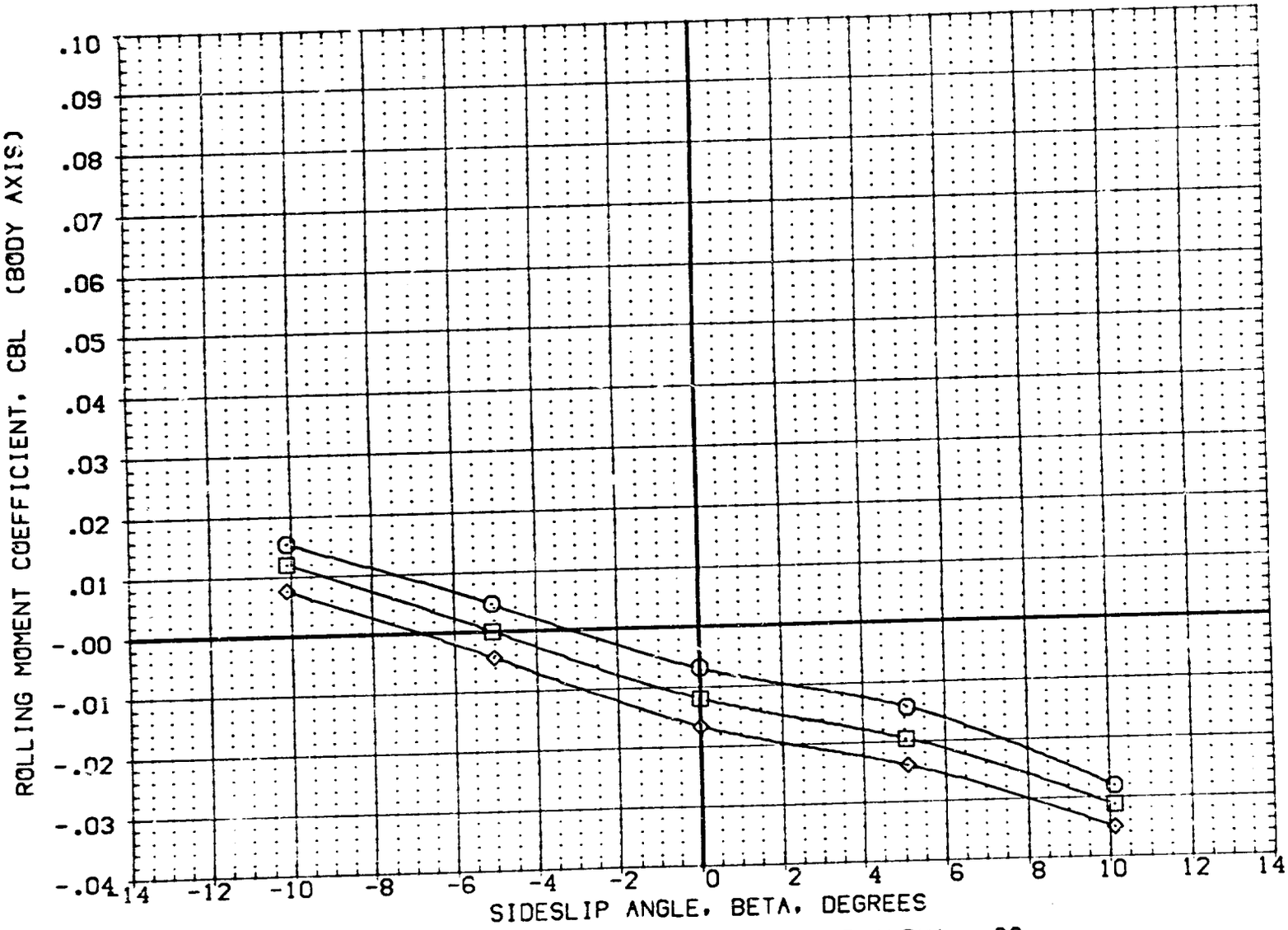


FIGURE 58 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[ROP013]	○	0A21	B17C7	M4F5	W1C7E23V7R6X9
[ROP017]	□	0A21	B17C7	M4F5	W1C7E23V7R6X9
[ROP021]	◇	0A21	B17C7	M4F5	W1C7E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	.000
20.000	.000	-7.500	.000
20.000	.000	-15.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

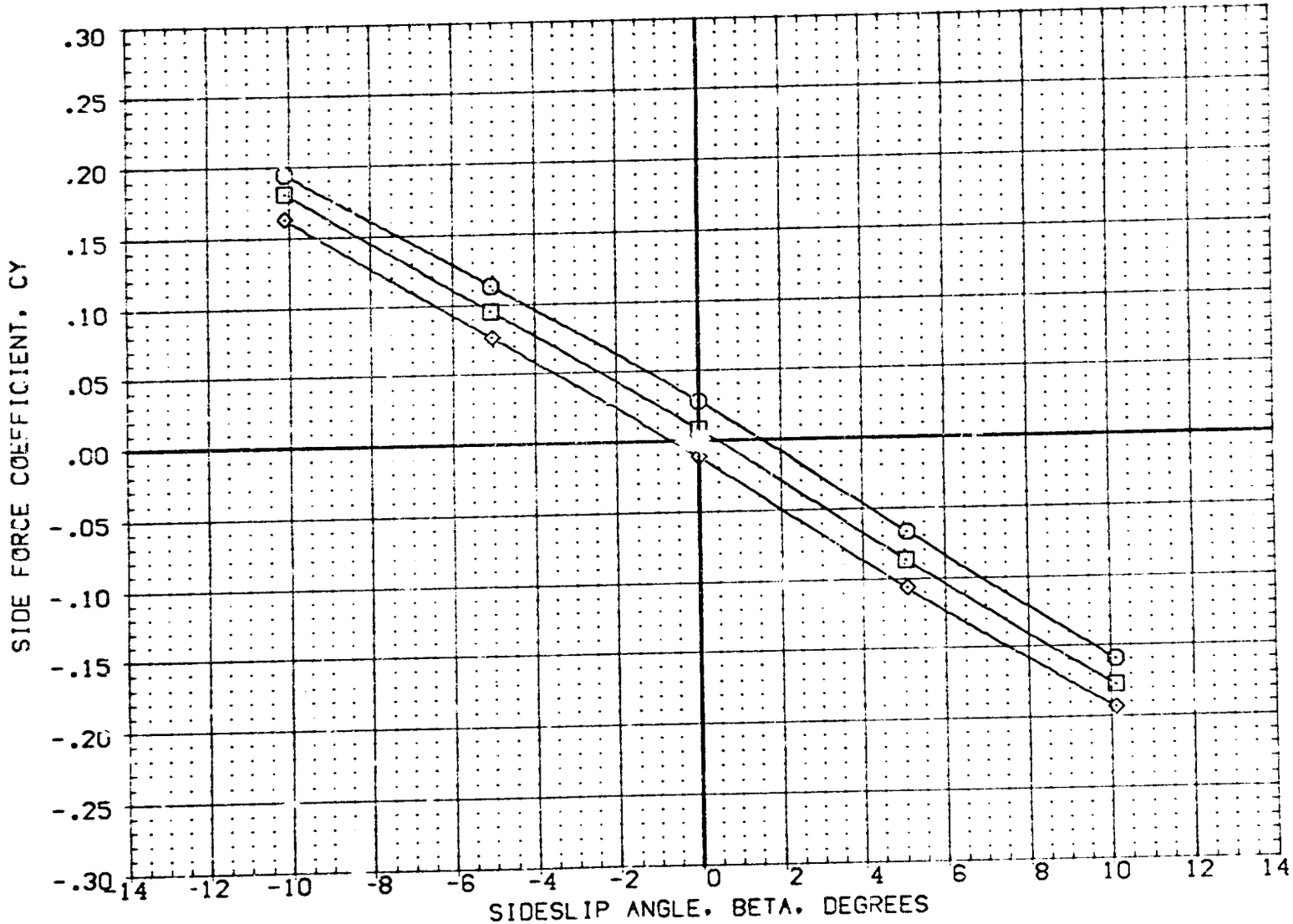


FIGURE 58 RUDDER EFFECTIVENESS WITH SPDBRK = 0 AND ALPHA = 20

(A)MACH = .26

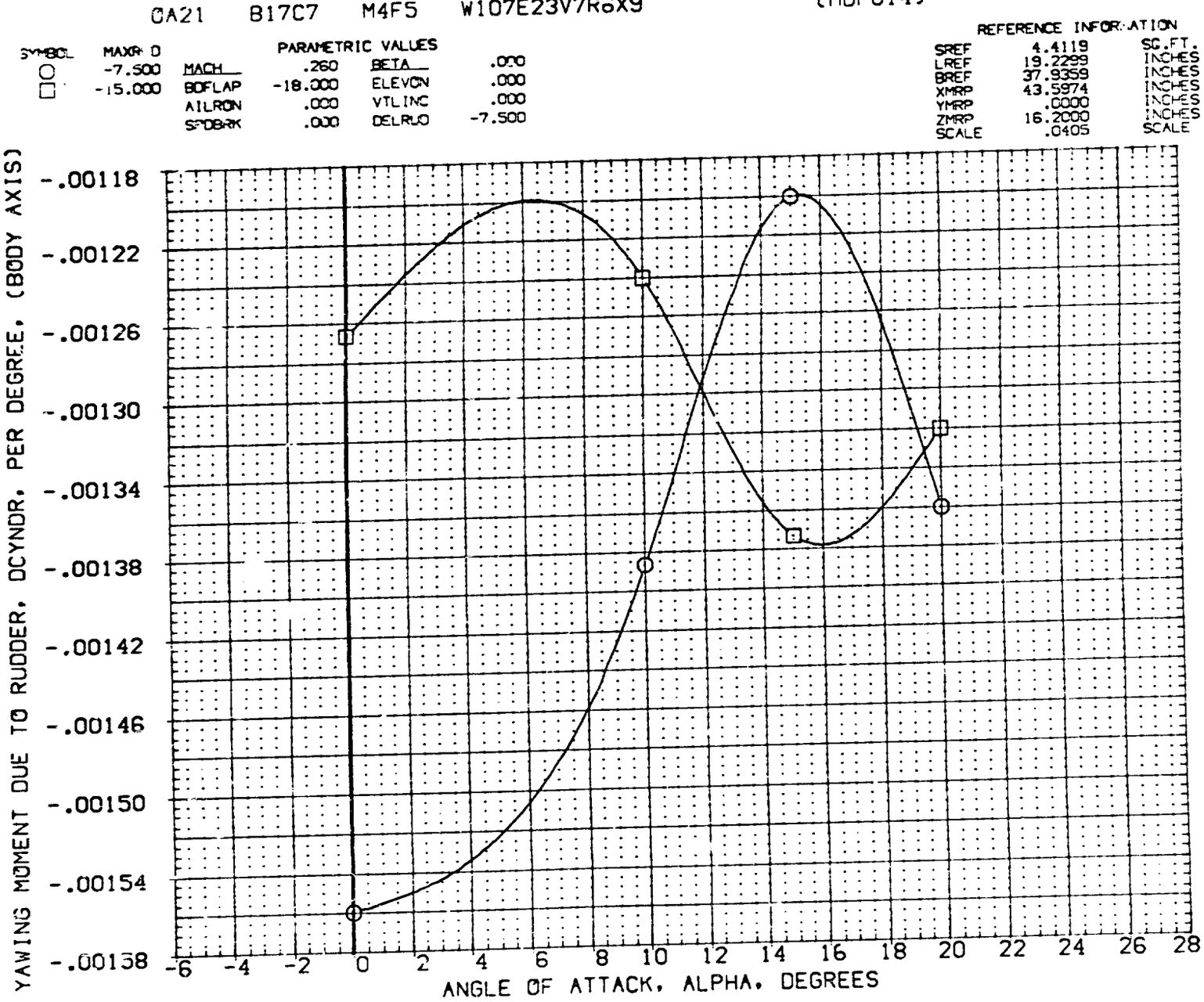


FIGURE 59 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK= 0

SYMBOL	MAXRUD
□	-7.500
○	-15.000

PARAMETRIC VALUES

MACH	.260	BETA	.000
BOFLAP	-18.000	ELEVON	.000
AILRON	.000	VTLINC	.000
SPDBRK	.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

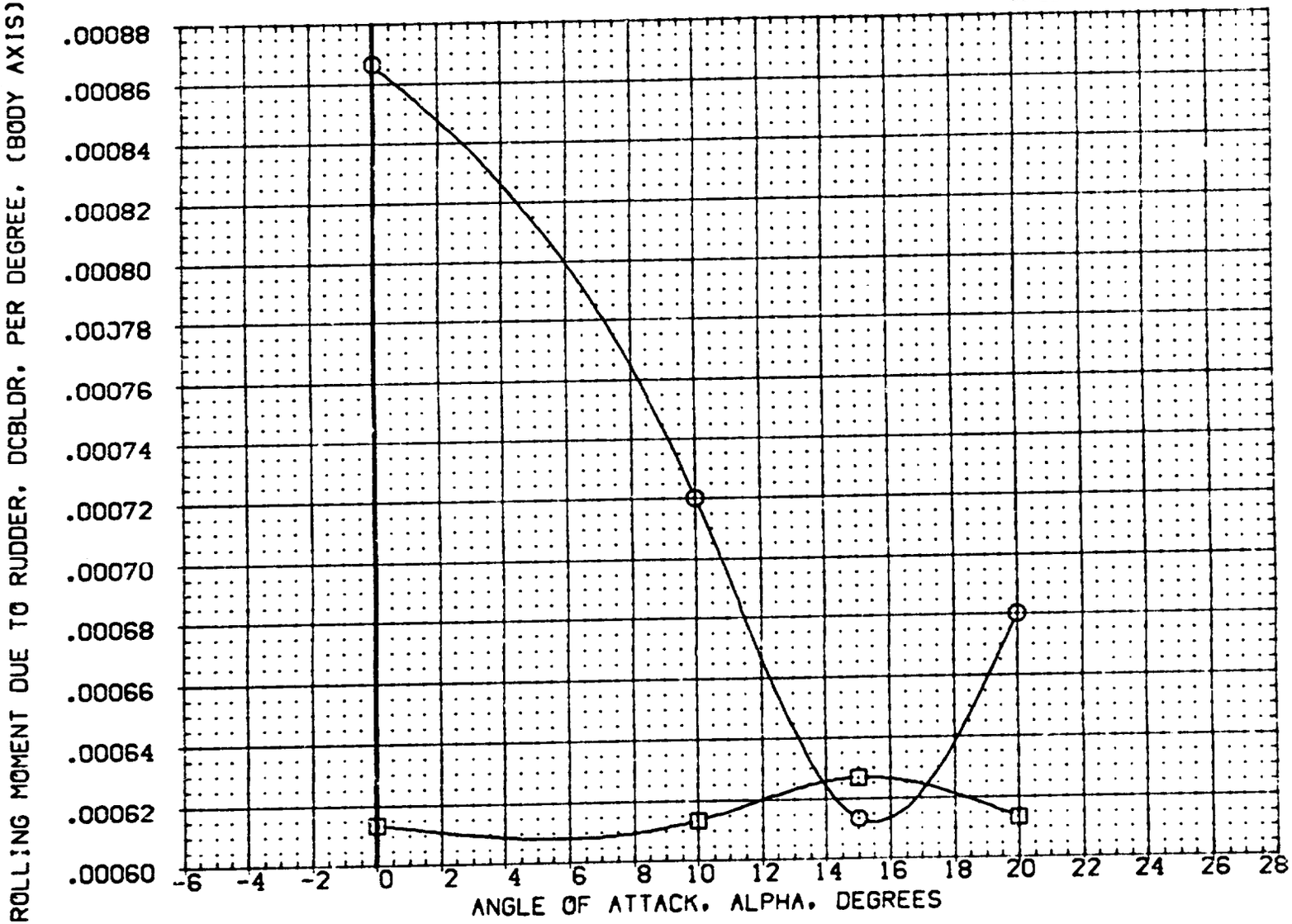


FIGURE 59 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK= 0

0A21 B17C7 M4F5 W107E23V7R6X9 (MDP014)

SYMBOL	MAXRUD
○	-7.500
□	-15.000

PARAMETRIC VALUES

MACH	.260	BETA	.000
BOFLAP	-18.000	ELEVON	.000
AILRON	.000	VTLINC	.000
SPOBRK	.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

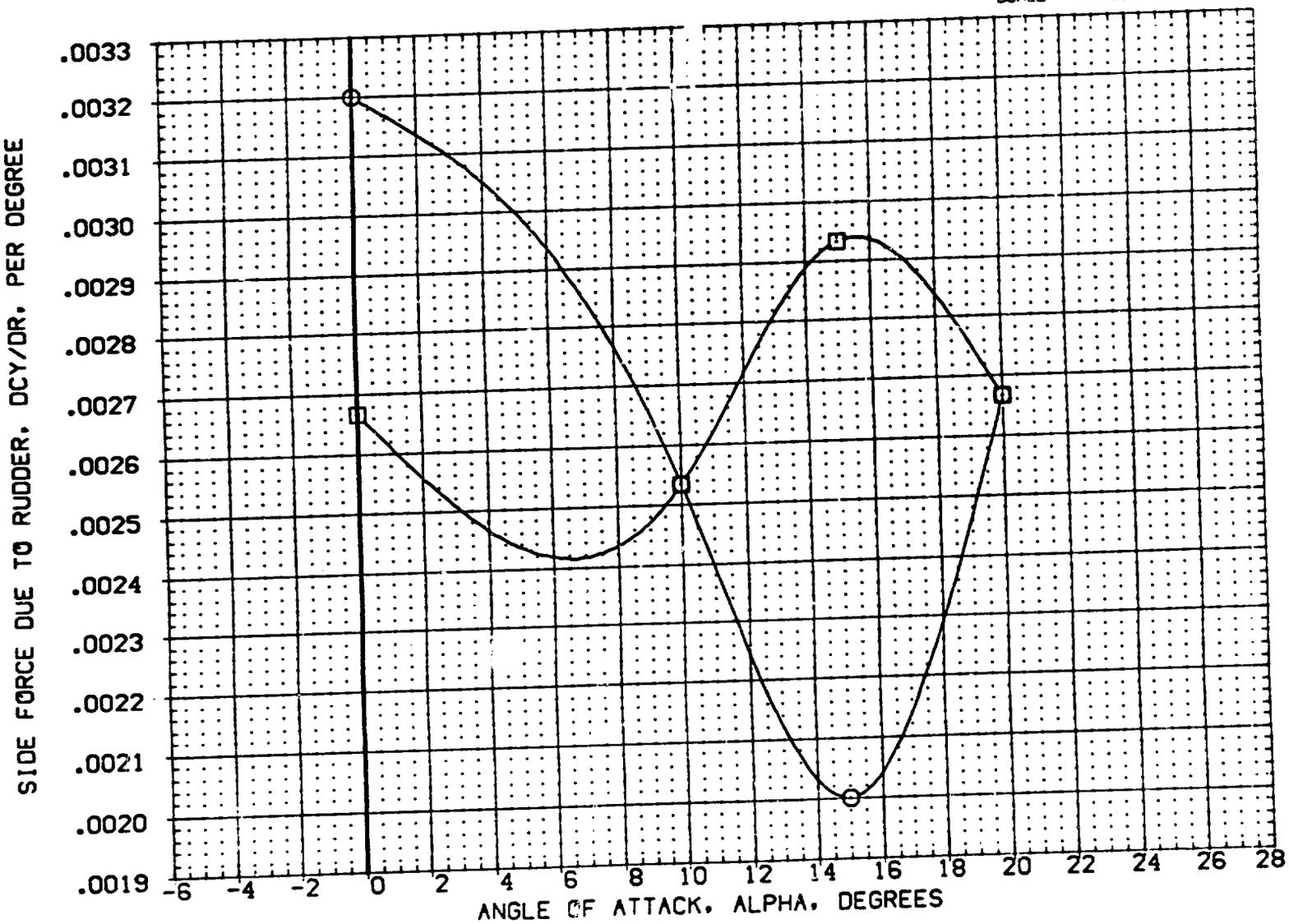


FIGURE 59 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPOBRK= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP023)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP027)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP031)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	25.000
.000	.000	-7.500	25.000
.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

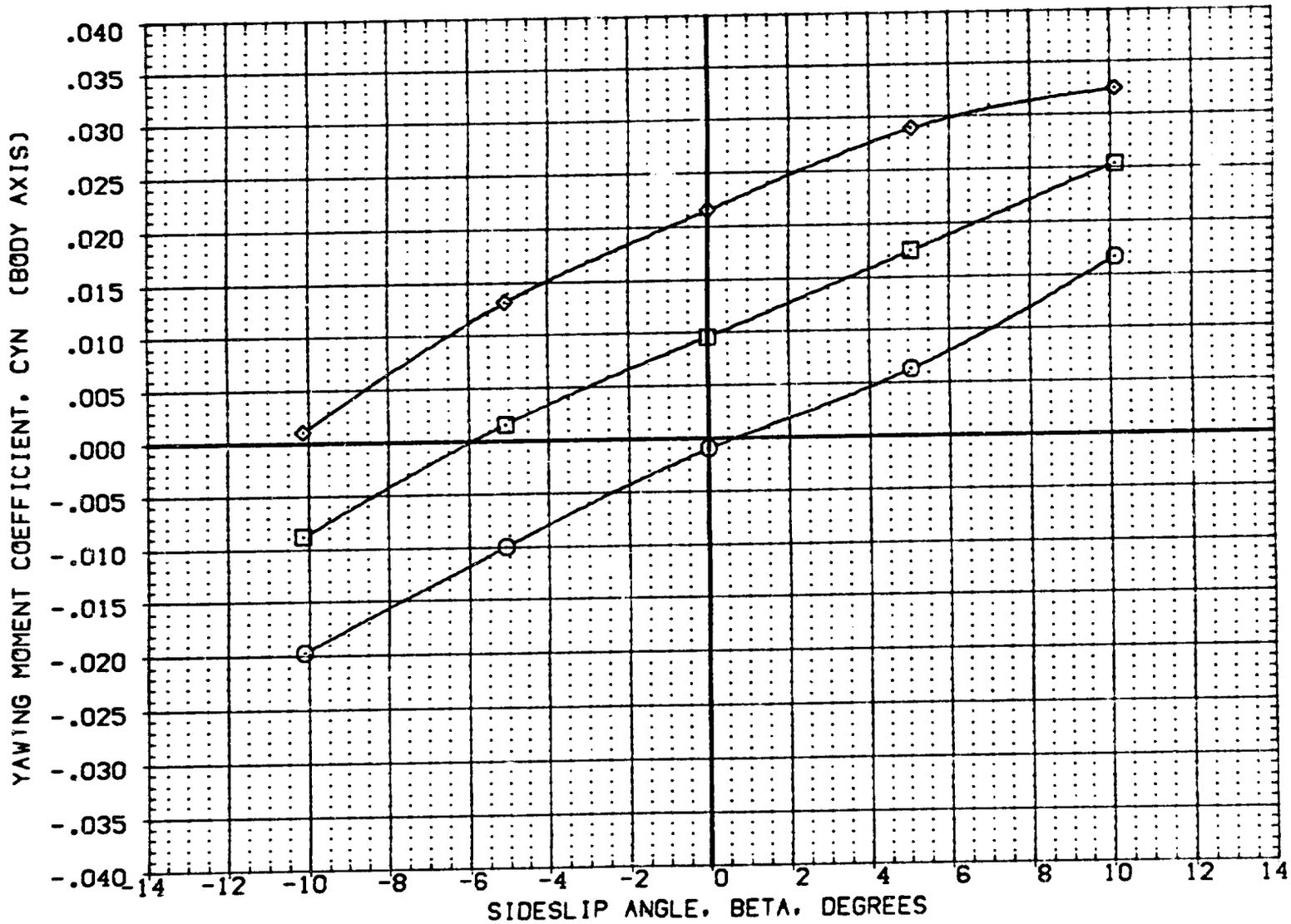


FIGURE 60 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP023)	○	0A21	B17C7	M4F5	W107E23V7R6XS
(RDP027)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP031)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	25.000
.000	.000	-7.500	25.000
.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

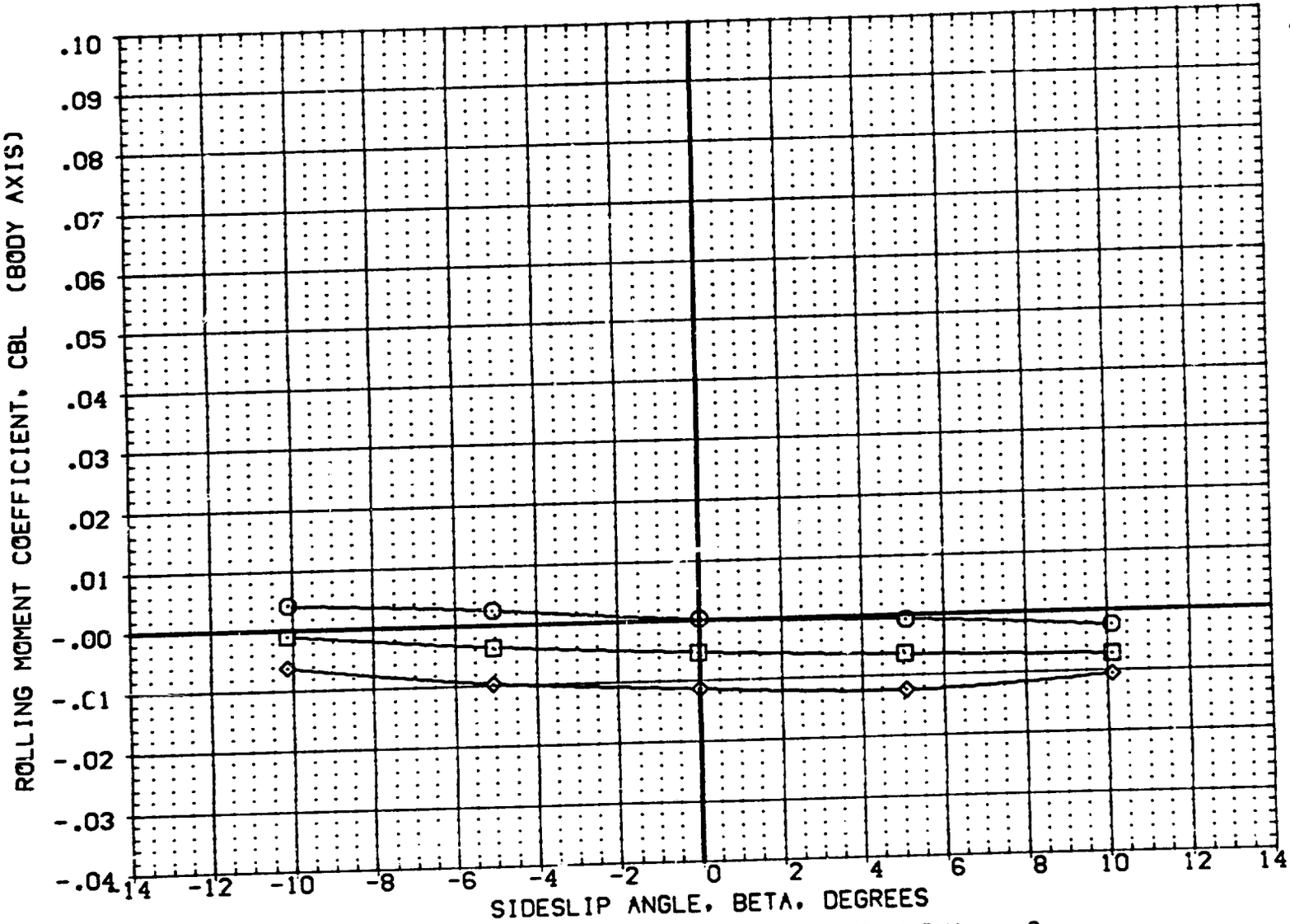


FIGURE 60 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP023)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP027)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP031)	◇	0A21	B17C7	M4F5	W107E?3V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	25.000
.000	.000	-7.500	25.000
.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

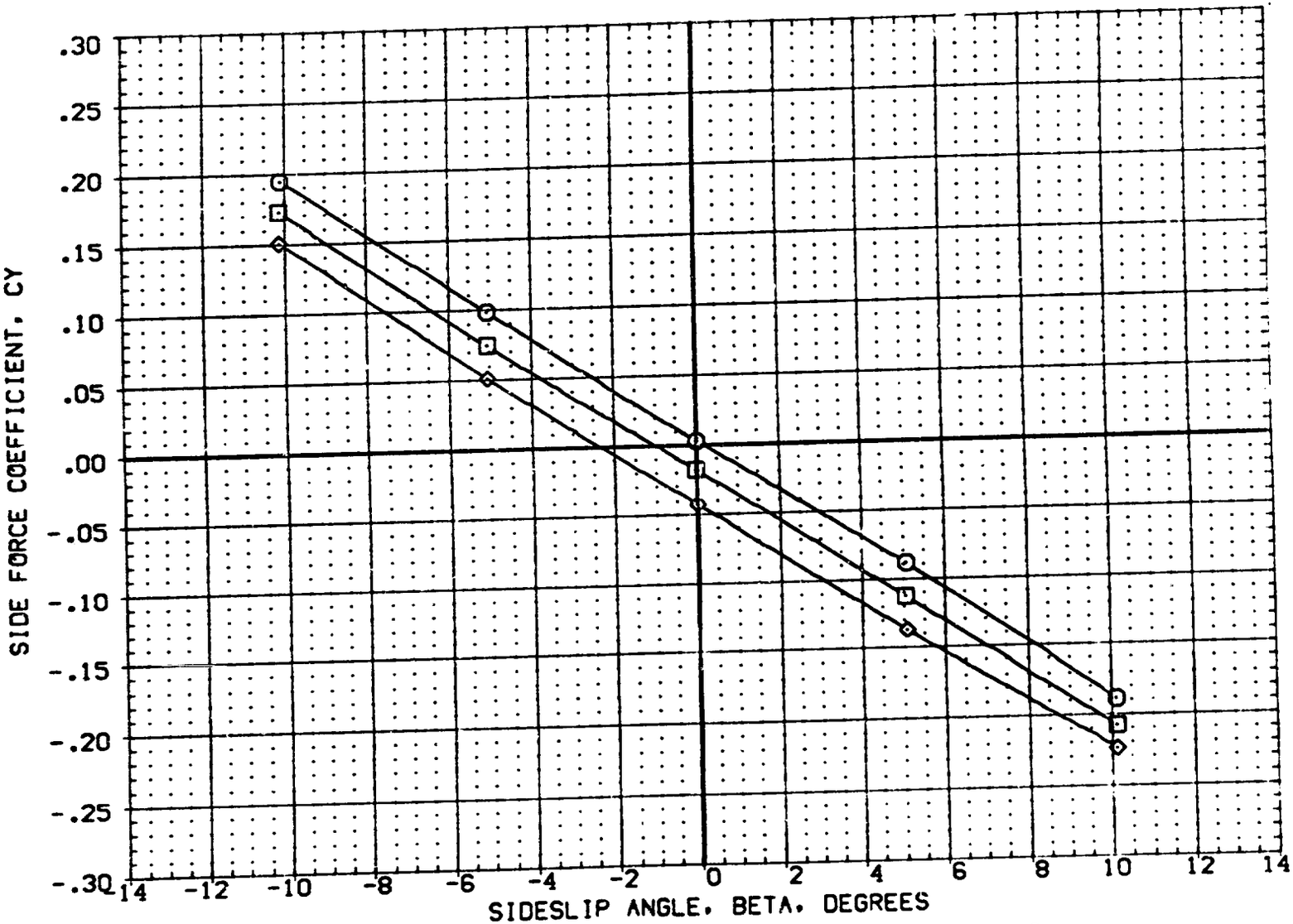


FIGURE 60 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 0

(A)MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(RDP024)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP028)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP032)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
10.000	.000	.000	25.000
10.000	.000	-7.500	25.000
10.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

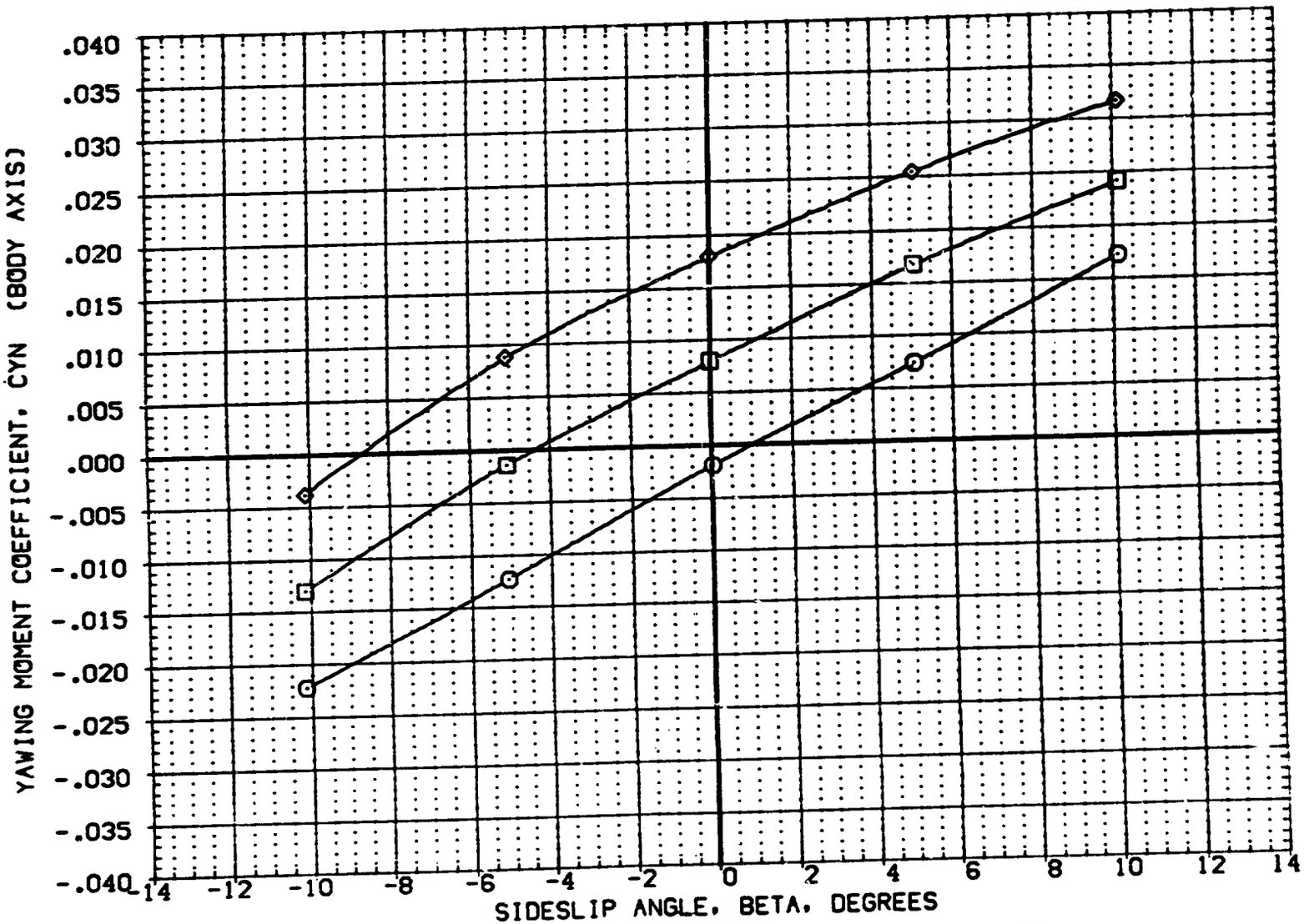


FIGURE 61 RUDDER EFFECTIVENESS WITH SPOBRK = 25 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP024)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP028)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP032)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	25.000
10.000	.000	-7.570	25.000
10.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.411[illegible]	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

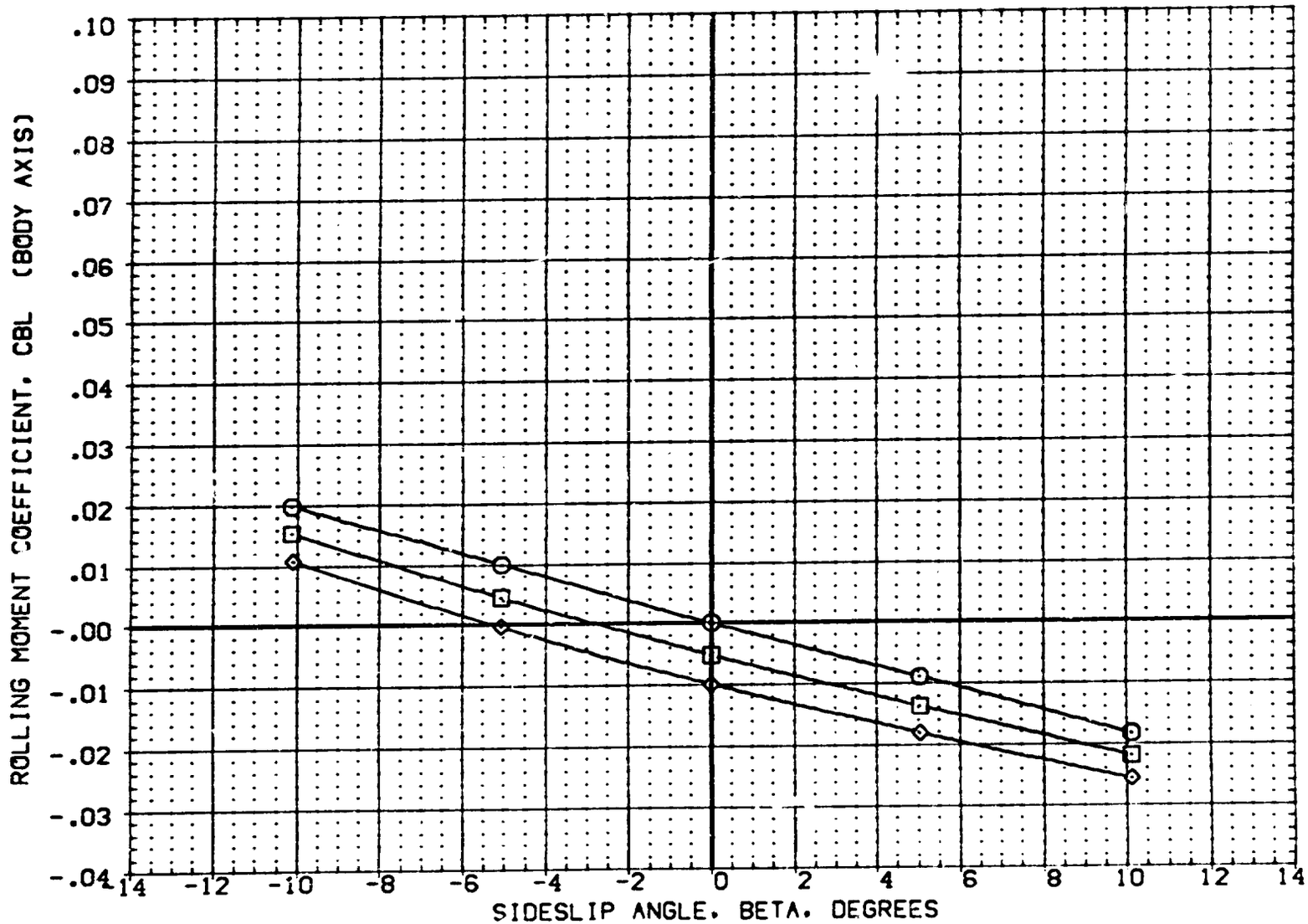


FIGURE 61 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP024)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP028)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP032)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILERON	RUDDER	SPDBRK
10.000	.000	.000	25.000
10.000	.000	-7.500	25.000
10.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

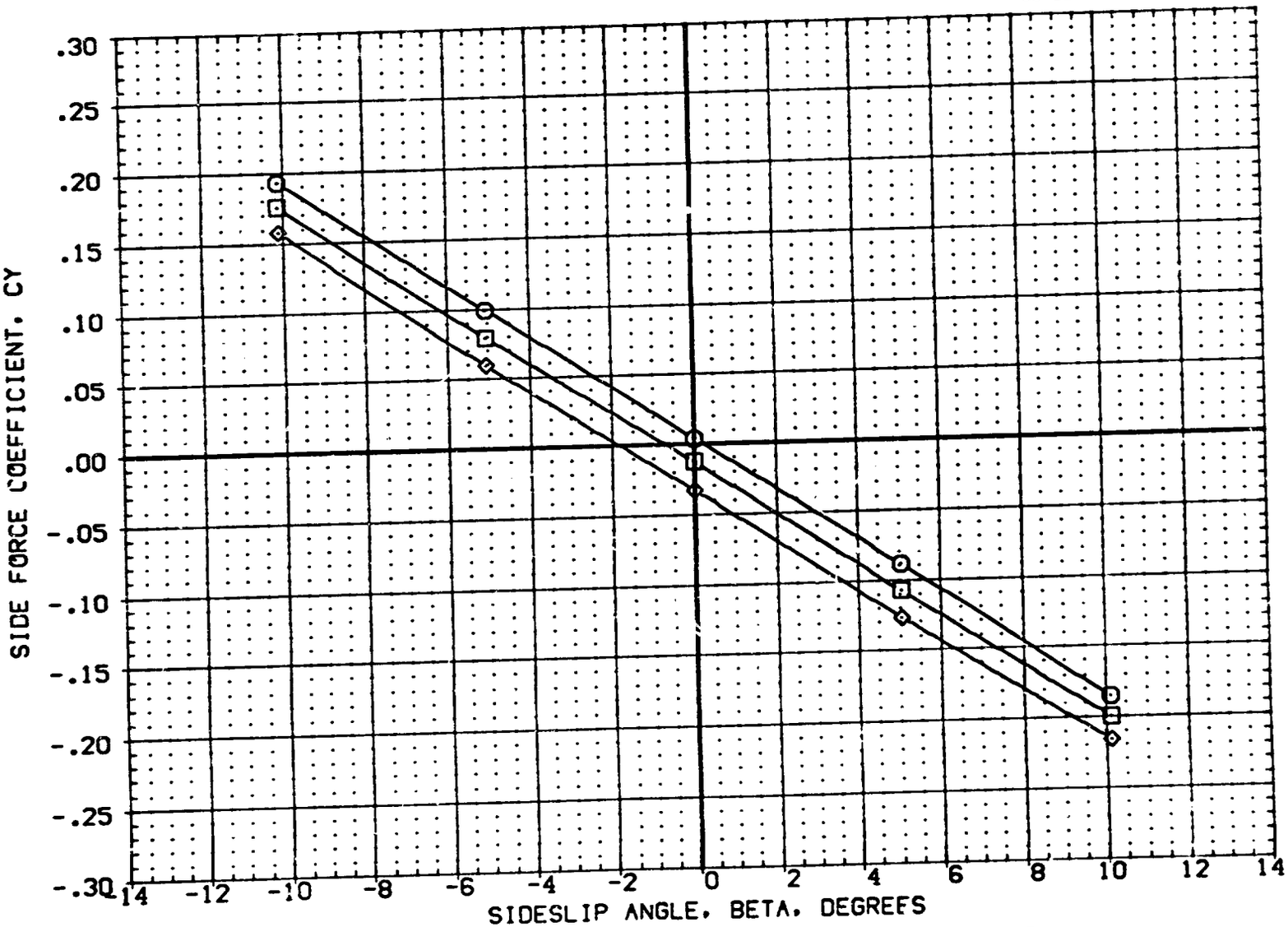


FIGURE 61 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 10

(A)MACH = .26

DATA SET SYMBOL	CONFIGURATION DESCRIPTION			
(ROP025)	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP029)	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP033)	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
15.000	.000	.000	25.000
15.000	.000	-7.500	25.000
15.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

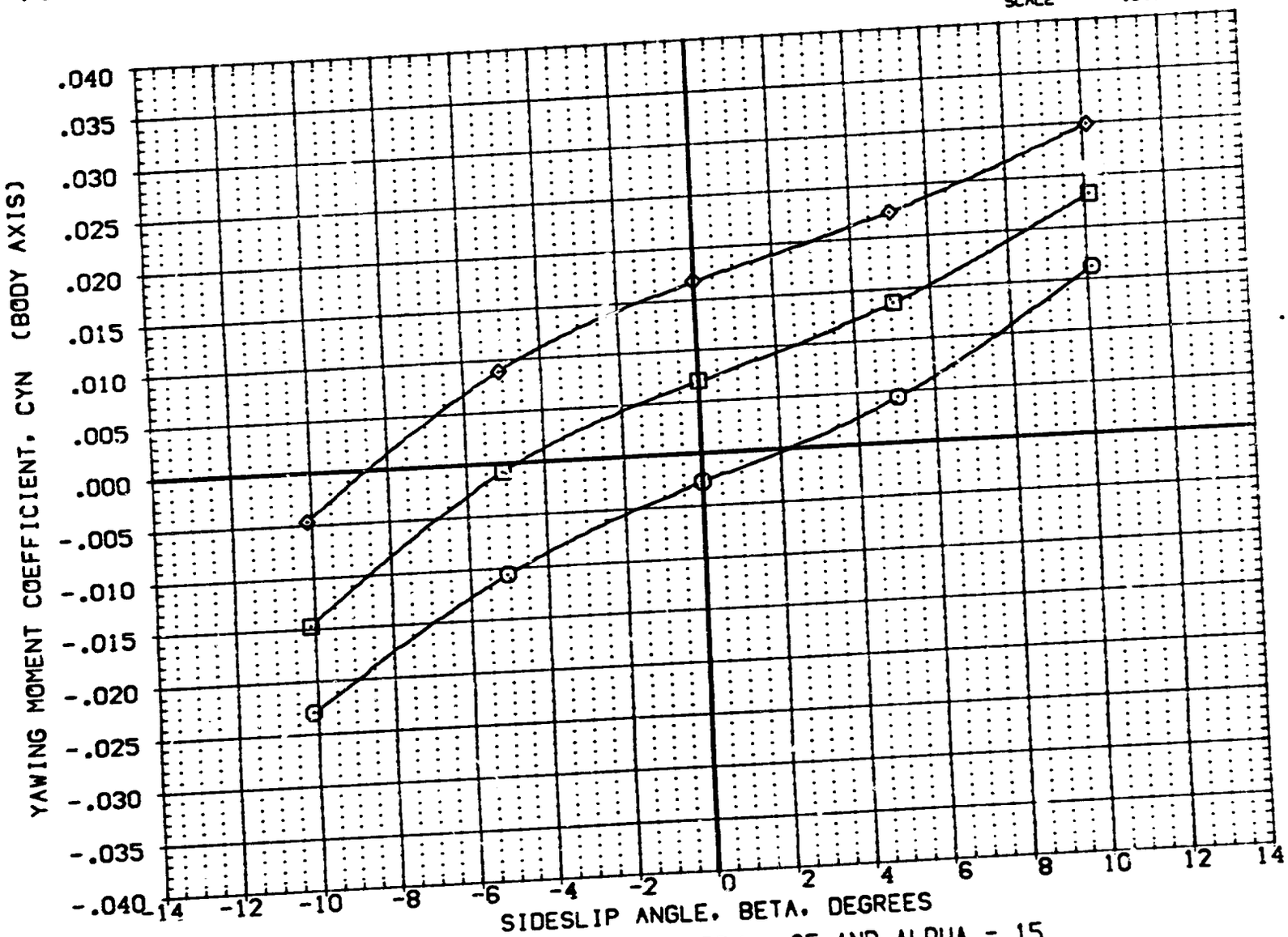


FIGURE 62 RUDDER EFFECTIVENESS WITH SPOBRK = 25 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP025)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP029)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP033)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	25.000
15.000	.000	-7.500	25.000
15.000	.000	-15.000	25.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

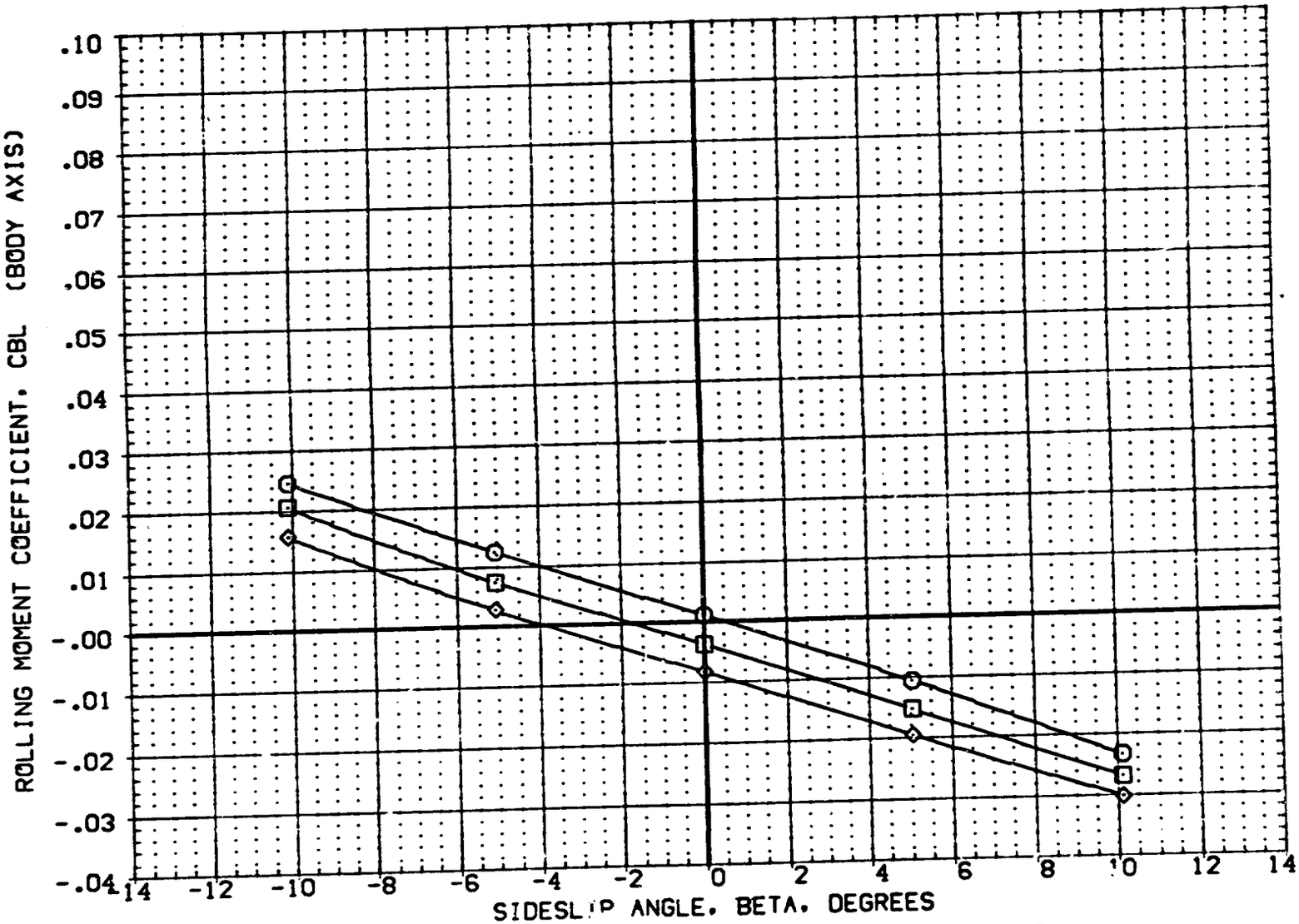


FIGURE 62 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP025)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP029)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP033)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	25.000
15.000	.000	-7.500	25.000
15.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2289	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.04C5	SCALE

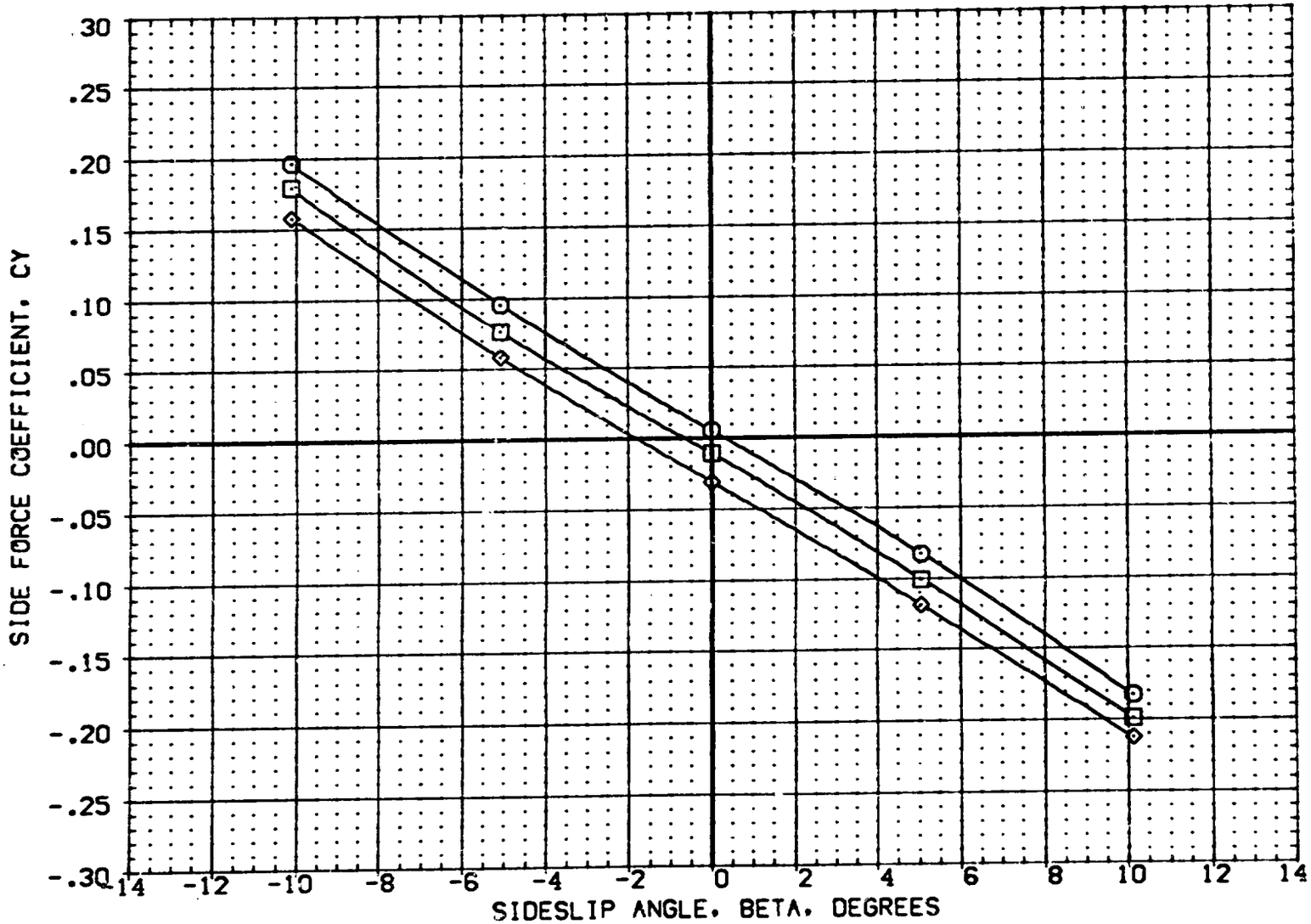


FIGURE 62 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP026)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP030)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP034)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	25.000
20.000	.000	-7.500	25.000
20.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

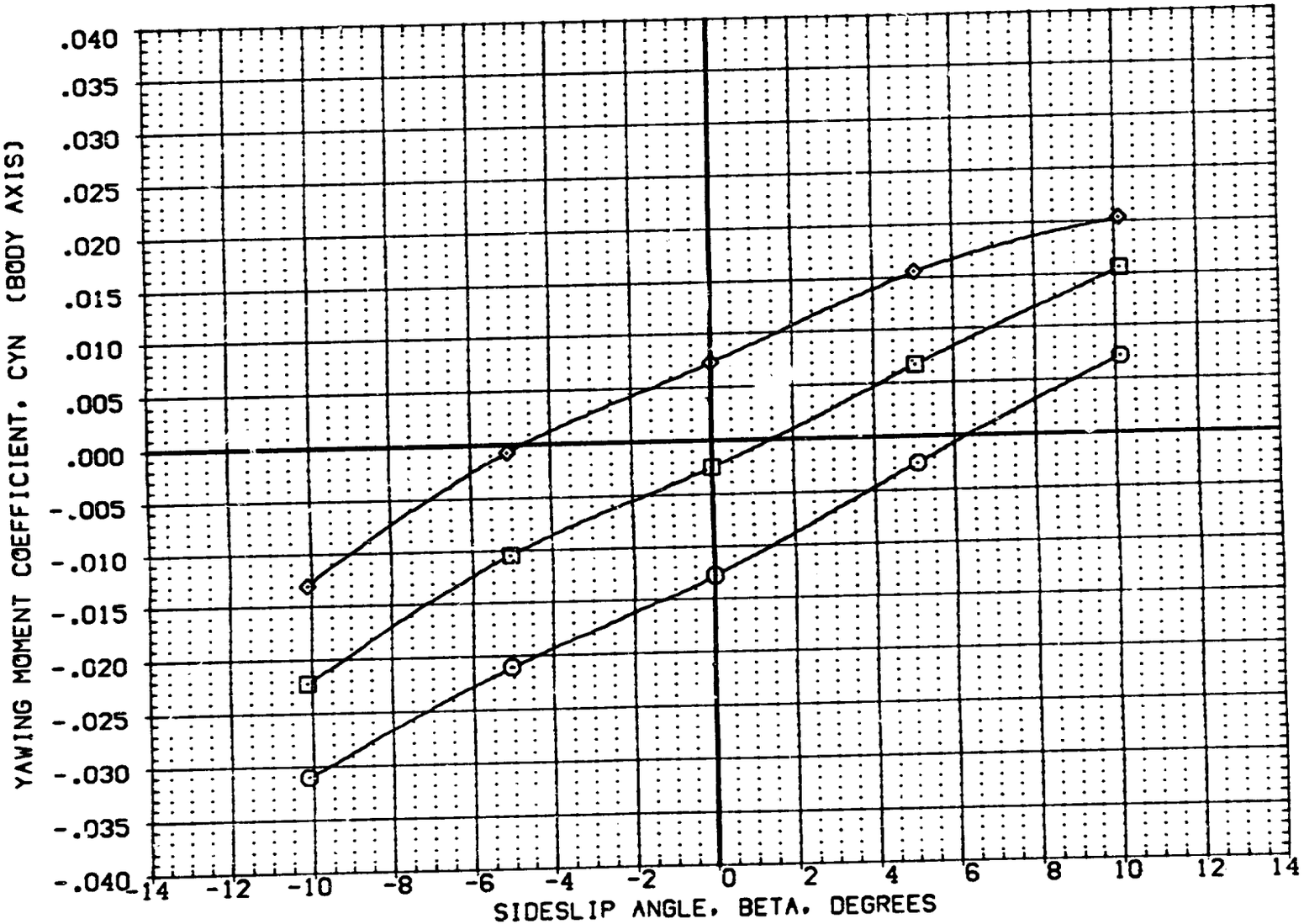


FIGURE 63 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP026)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP030)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP034)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	25.000
20.000	.000	-7.500	25.000
20.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

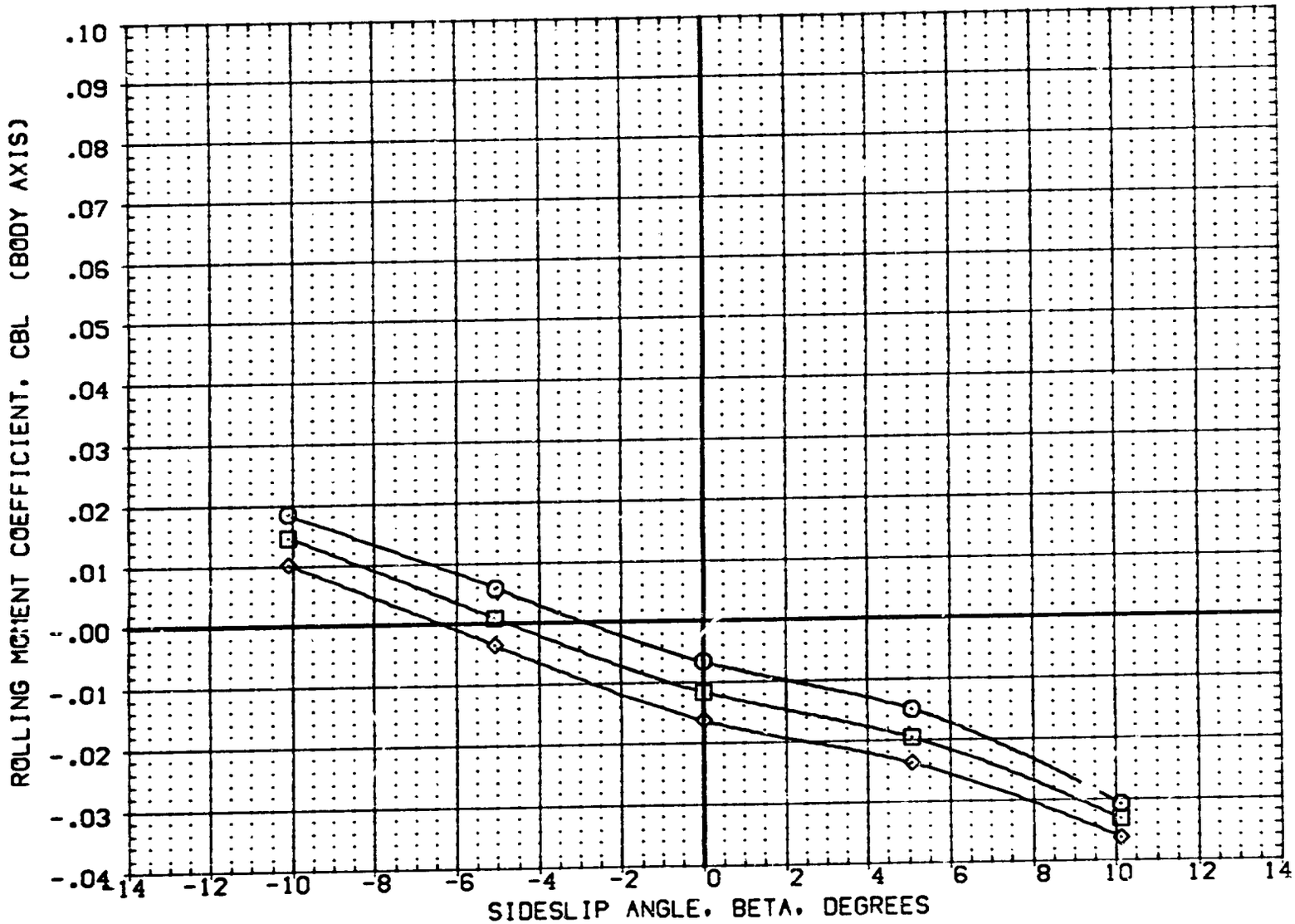


FIGURE 63 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP026)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP030)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP034)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	25.000
20.000	.000	-7.500	25.000
20.000	.000	-15.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

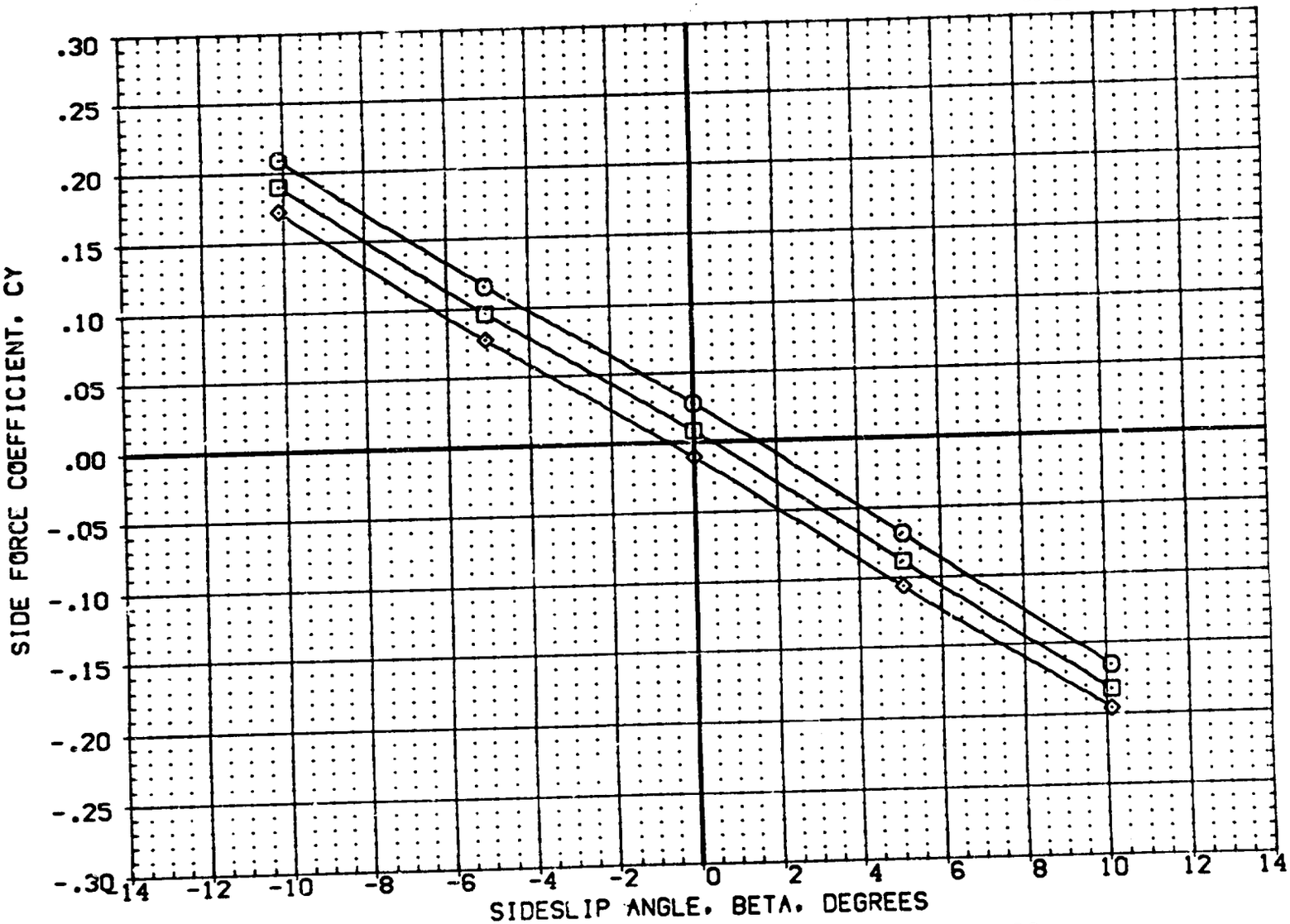


FIGURE 63 RUDDER EFFECTIVENESS WITH SPDBRK = 25 AND ALPHA = 20

(A)MACH = .26

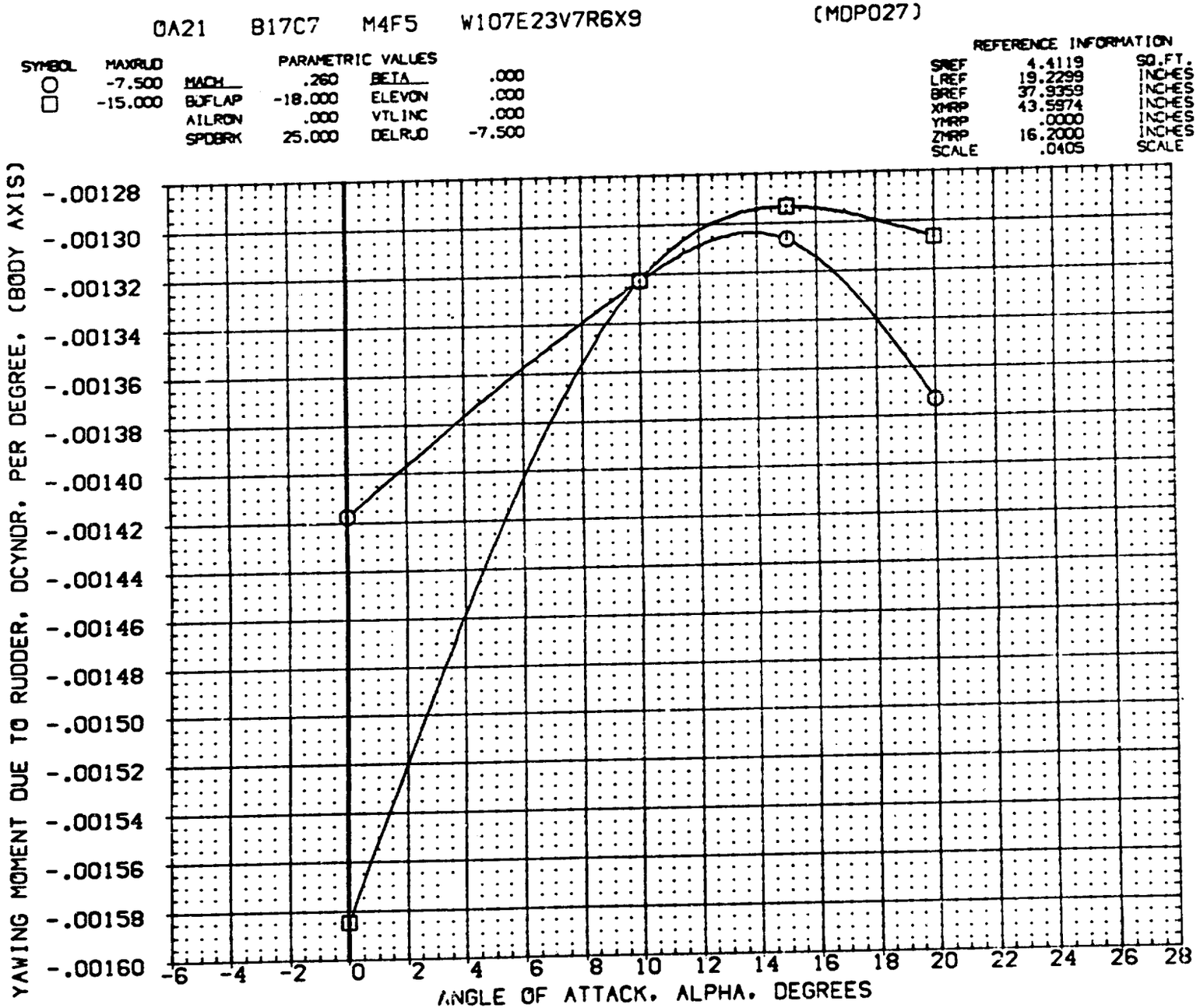


FIGURE 64 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 25

0A21 B17C7 14F5 W107E23V7R6X9 (MDP027)

SYMBOL	MAXRUD
○	-7.500
□	-15.000

PARAMETRIC VALUES

MACH	.260	BETA	.000
BOFLAP	-18.000	ELEVON	.000
AILRON	.000	VTLINC	.000
SPDBRK	25.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

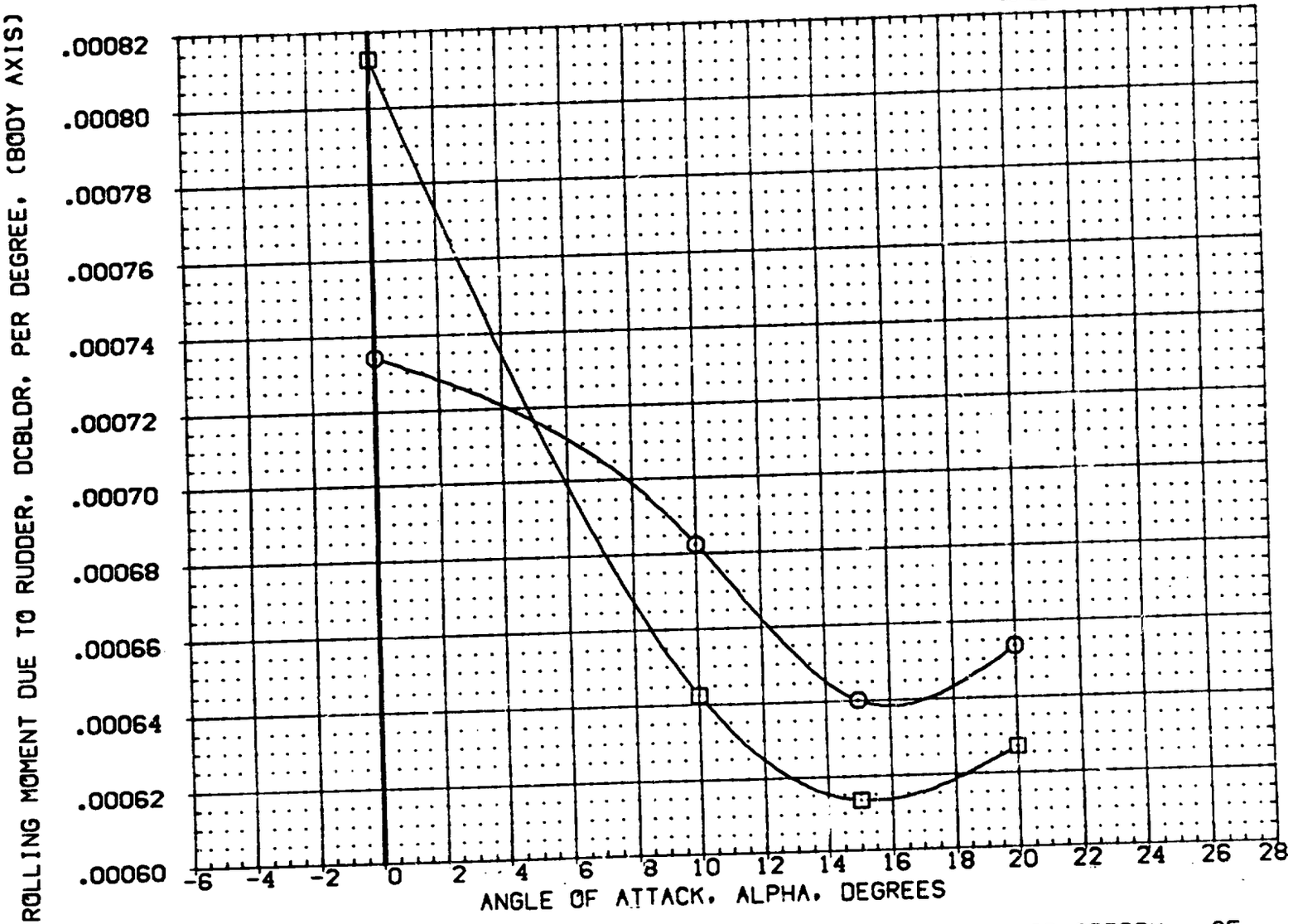


FIGURE 64 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 25

0A21 B17C7 M4F5 W107E23V7R6X9 (MDP027)

SYMBOL	MAXRUD		PARAMETRIC VALUES		
○	-7.500	MACH	.260	BETA	.000
□	-15.000	BOFLAP	-18.000	ELEVON	.000
		AILRON	.000	VTLINC	.000
		SPDBRK	25.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

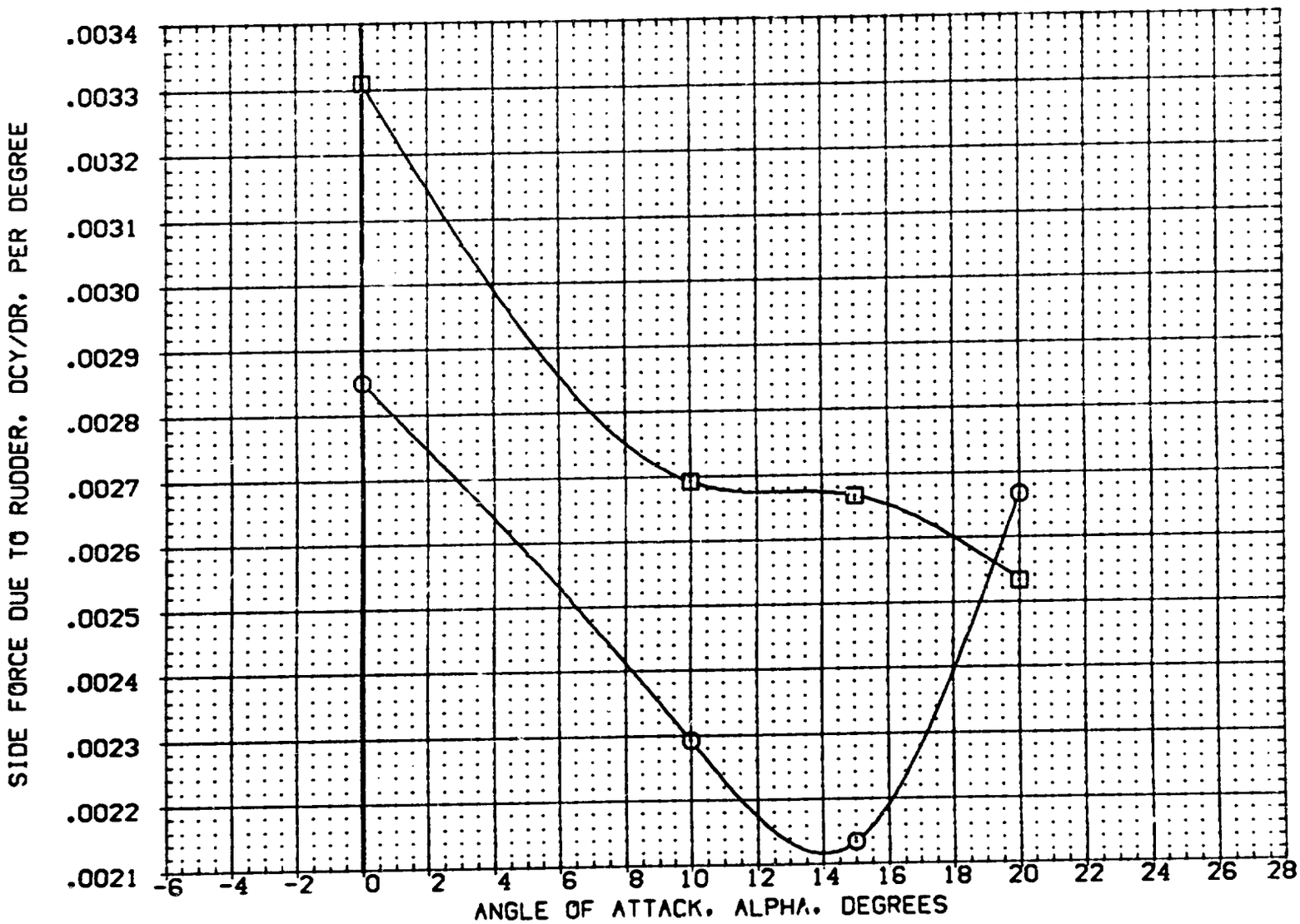


FIGURE 64 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP049)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP053)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP057)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
.000	.000	-7.500	55.000
.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

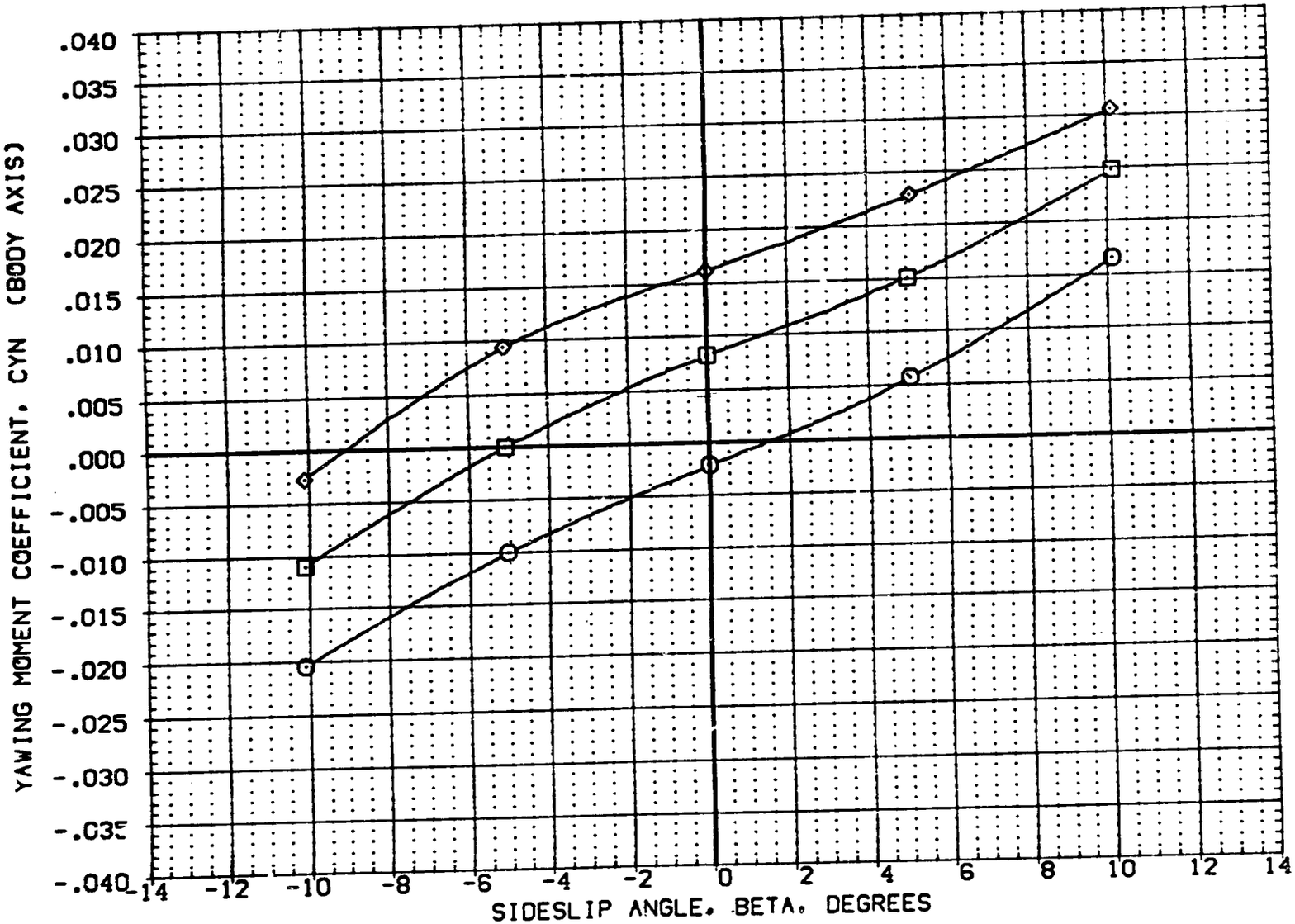


FIGURE 65 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	AILRON	RUDDER	SPDBRK
(ROP049)	○	0A21	B17C7	M4F5	W107E23V7R6X9	.000	.000	.000	55.000
(ROP053)	□	0A21	B17C7	M4F5	W107E23V7R6X9	.000	.000	-7.500	55.000
(ROP057)	◇	0A21	B17C7	M4F5	W107E23V7R6X9	.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

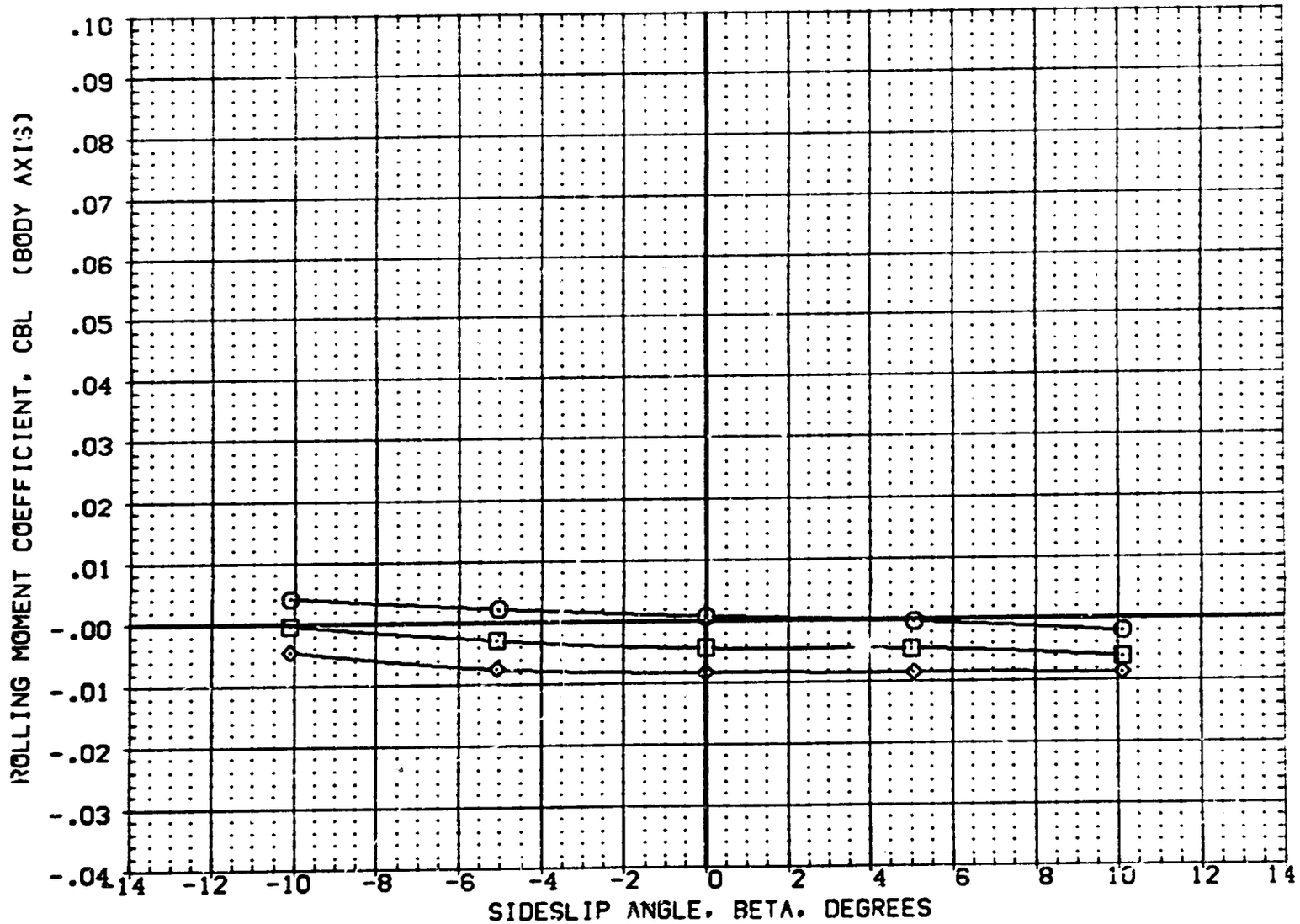


FIGURE 65 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP049)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP053)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP057)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
.000	.000	-7.500	55.000
.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

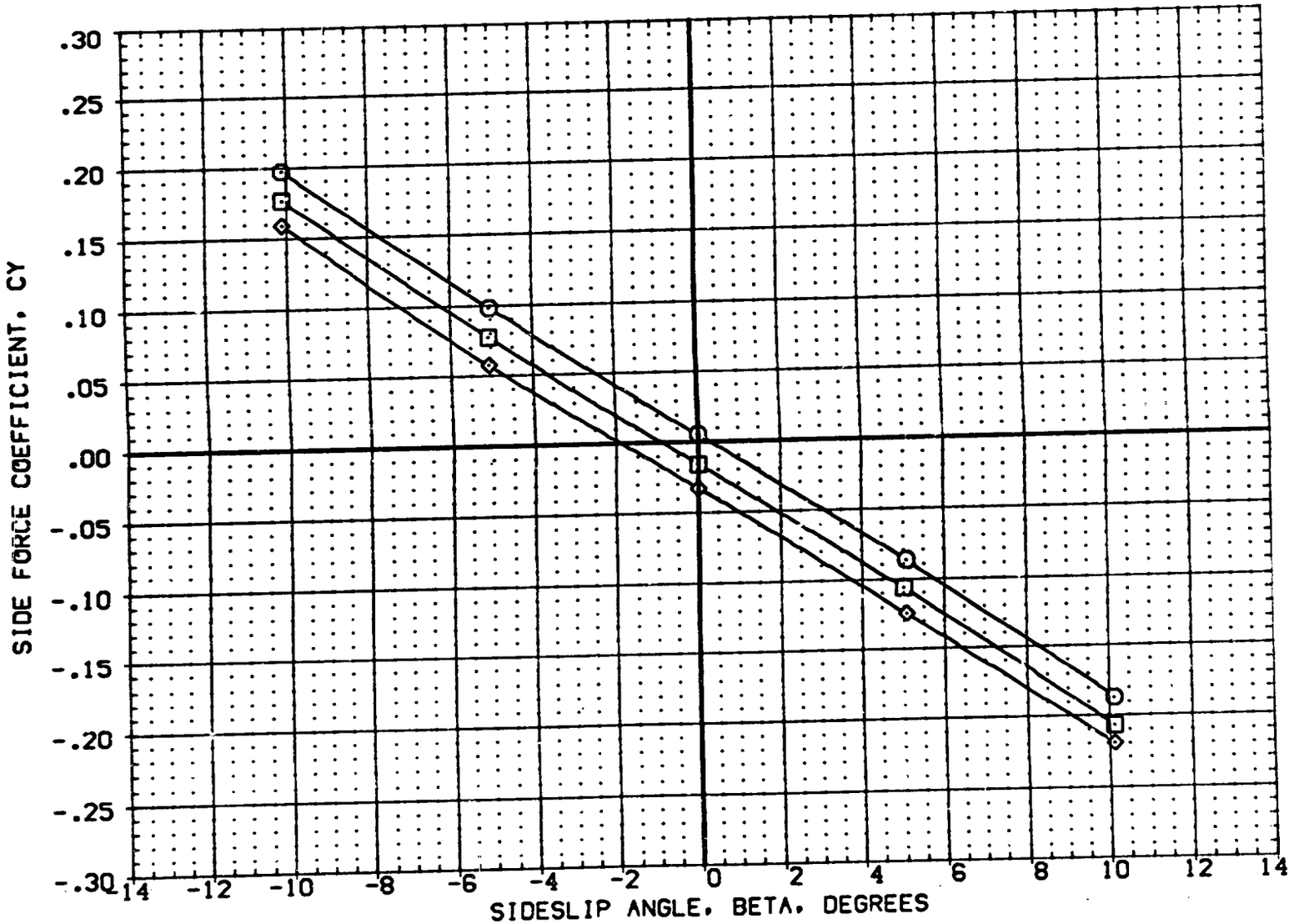


FIGURE 65 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP050)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP054)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP058)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	55.000
10.000	.000	-7.500	55.000
10.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

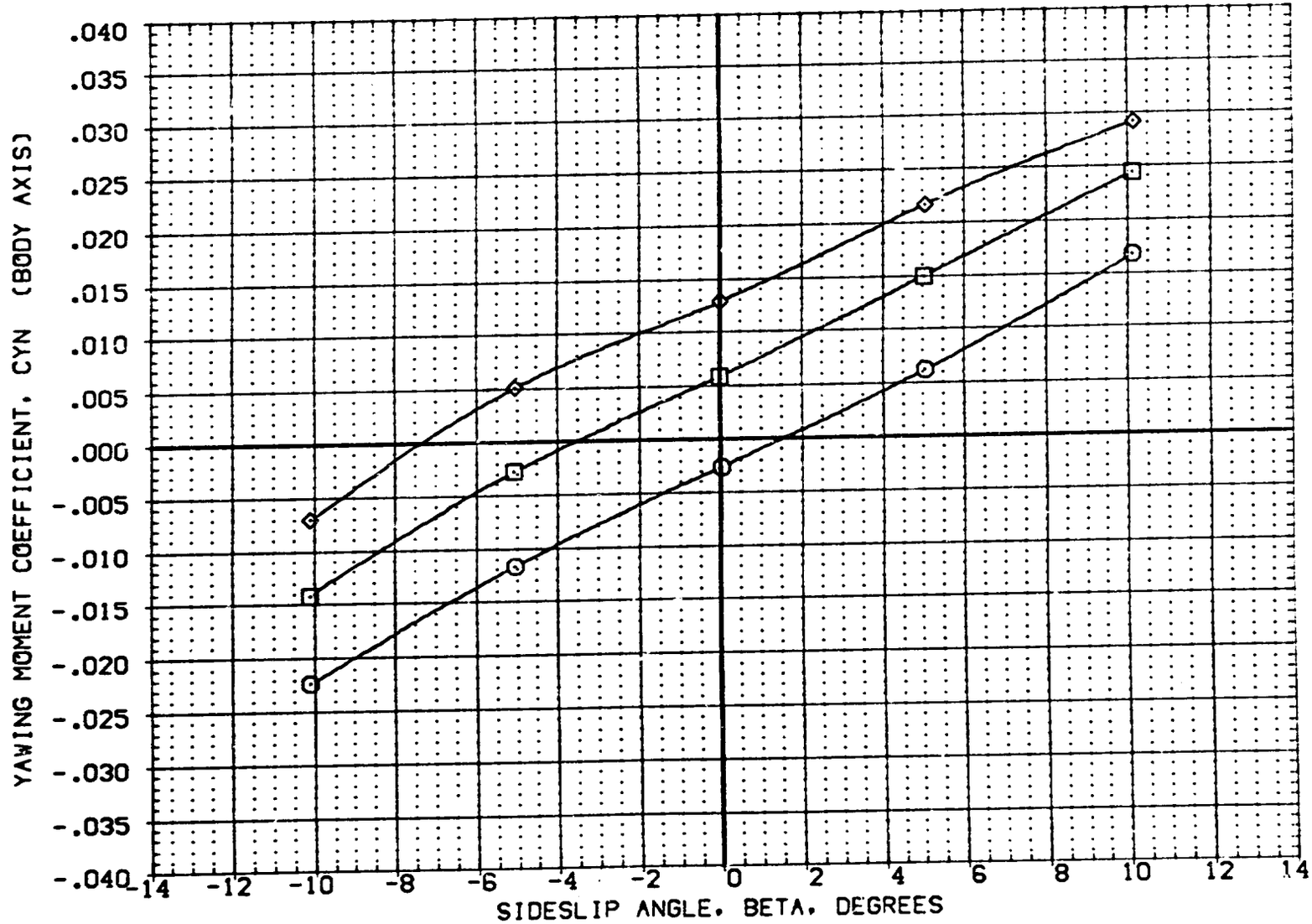


FIGURE 66 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP050)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP054)	◇□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP058)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	55.000
10.000	.000	-7.500	55.000
10.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

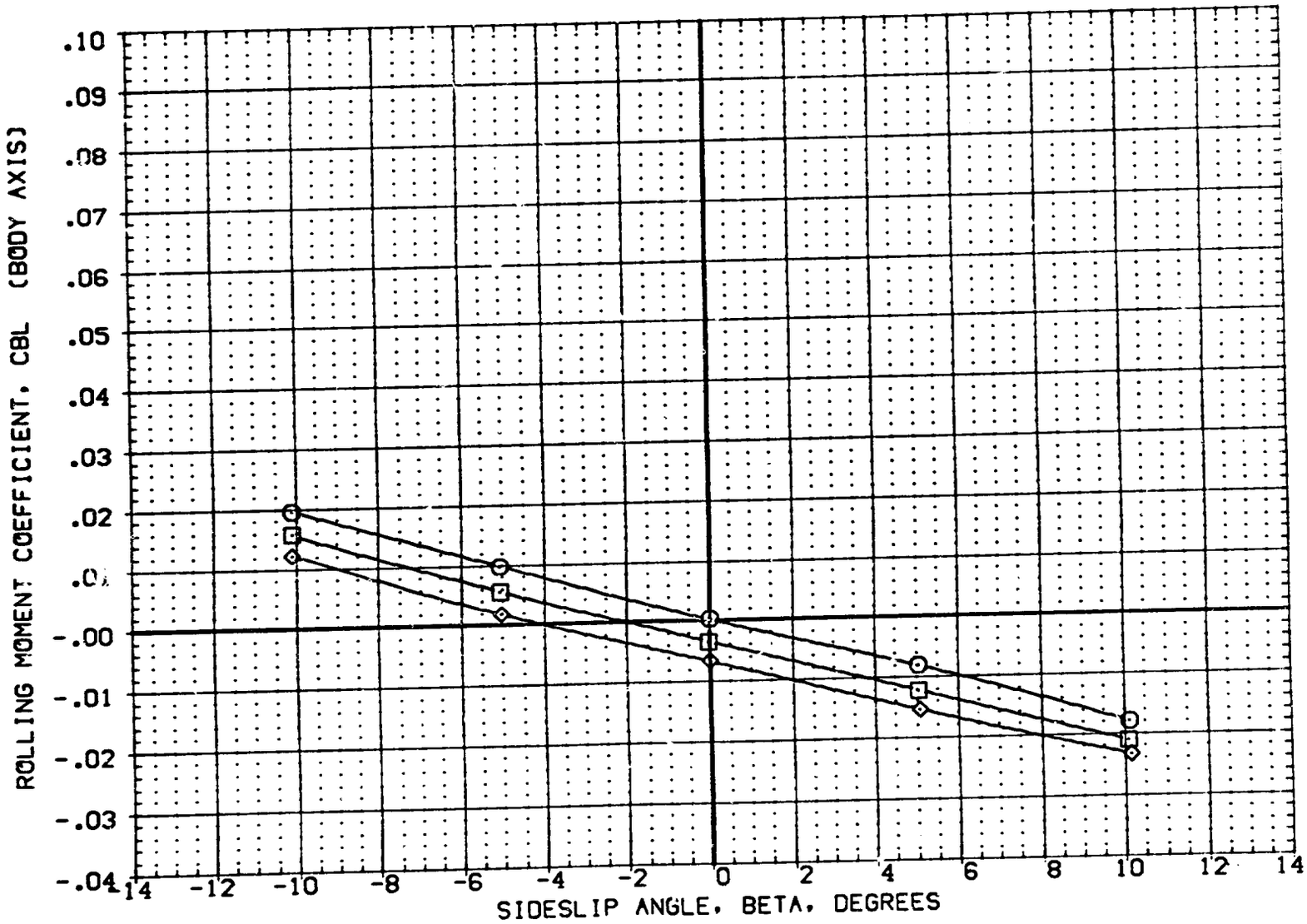


FIGURE 66 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP050)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP054)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP058)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	55.000
10.000	.000	-7.500	55.000
10.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.8359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

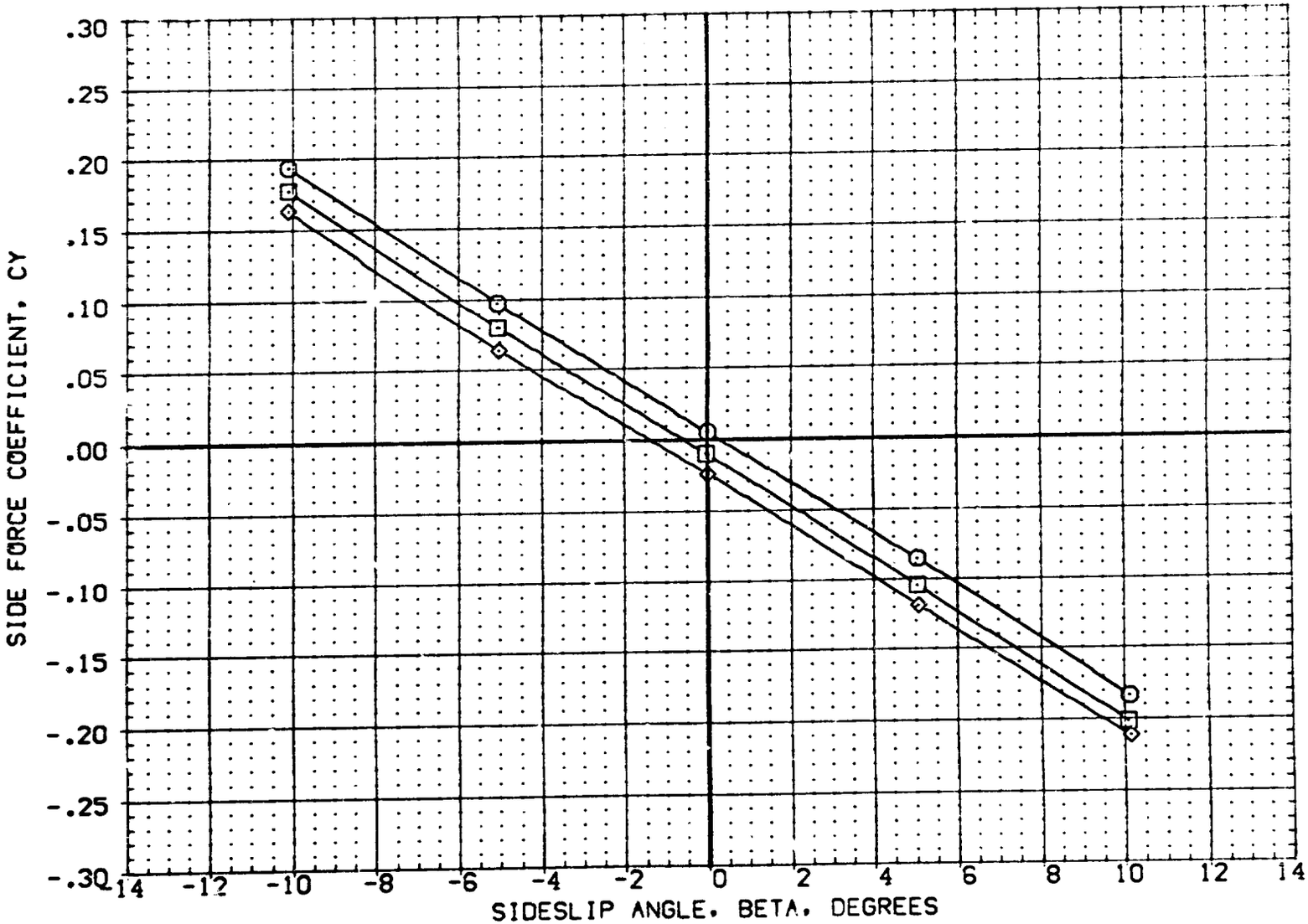


FIGURE 66 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP051)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP055)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP059)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	55.000
15.000	.000	-7.500	55.000
15.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.419	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

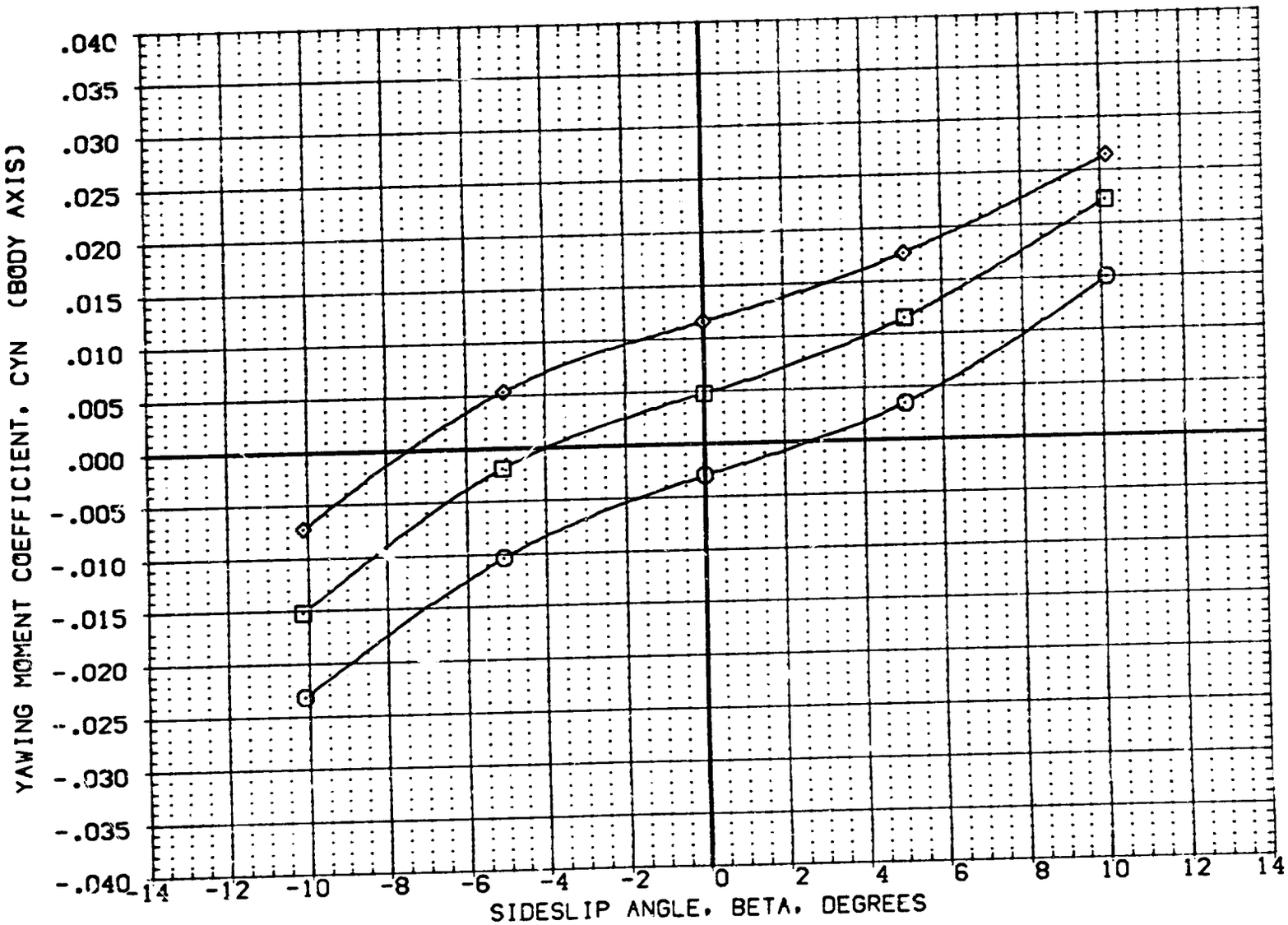


FIGURE 67 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP051)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP055)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP059)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	55.000
15.000	.000	-7.500	55.000
15.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

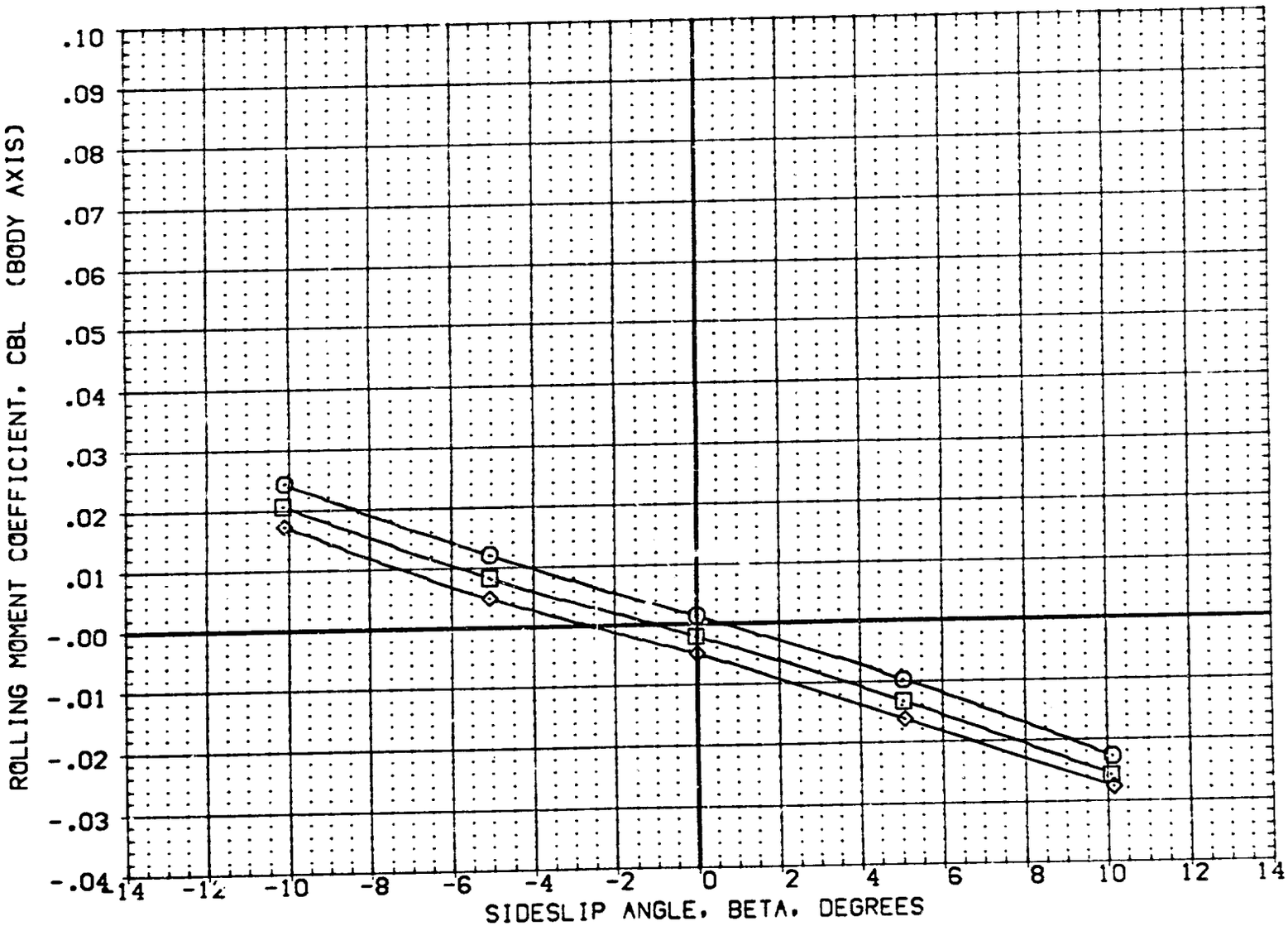


FIGURE 67 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[RDF051]	○	0A21	B17C7	M4F5	V107E23V7R6X9
[RDP055]	□	0A21	B17C7	M4F5	V107E23V7R6X9
[RDP059]	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	55.000
15.000	.000	-7.500	55.000
15.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

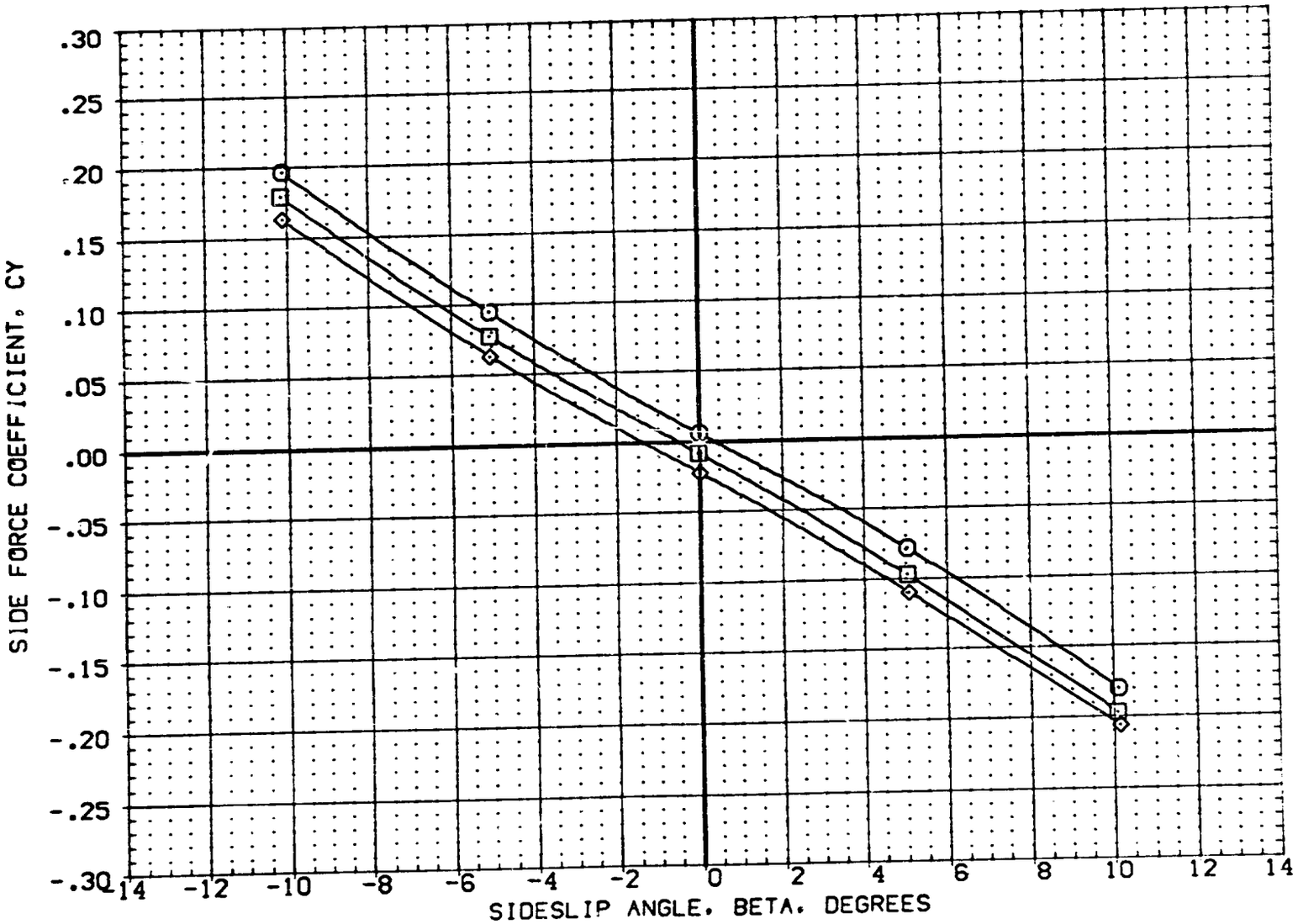


FIGURE 67 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROPJ52)	○	0A21	B17C7	M4FS	W107E23V7R6X9
(ROP056)	□	0A21	B17C7	M4FS	W107E23V7R6X9
(ROP060)	◇	0A21	B17C7	M4FS	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	55.000
20.000	.000	-7.500	55.000
20.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2300	INCHES
SCALE	.0405	SCALE

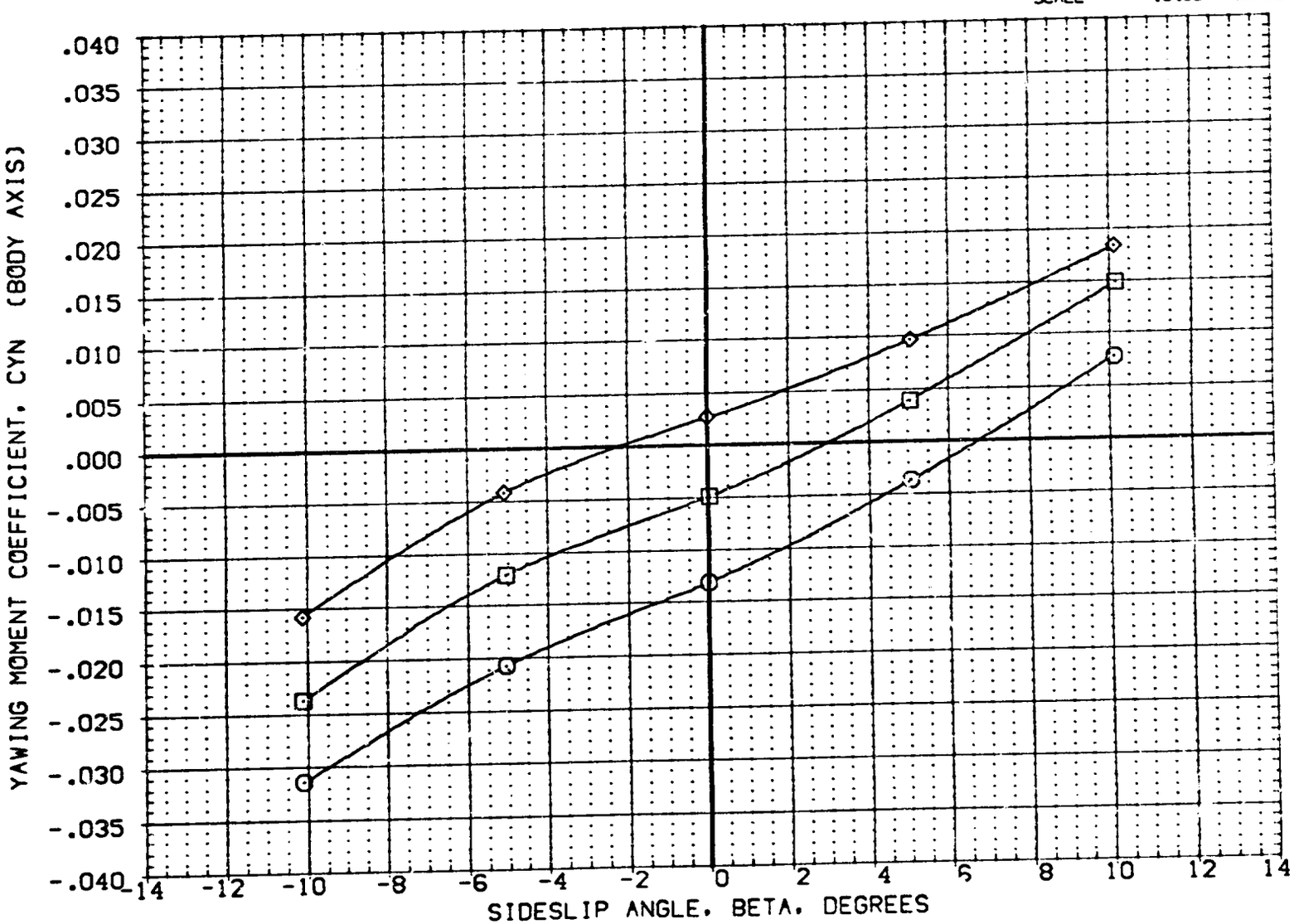


FIGURE 68 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(R0P052)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(R0P056)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(R0P060)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	55.000
20.000	.000	-7.500	55.000
20.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

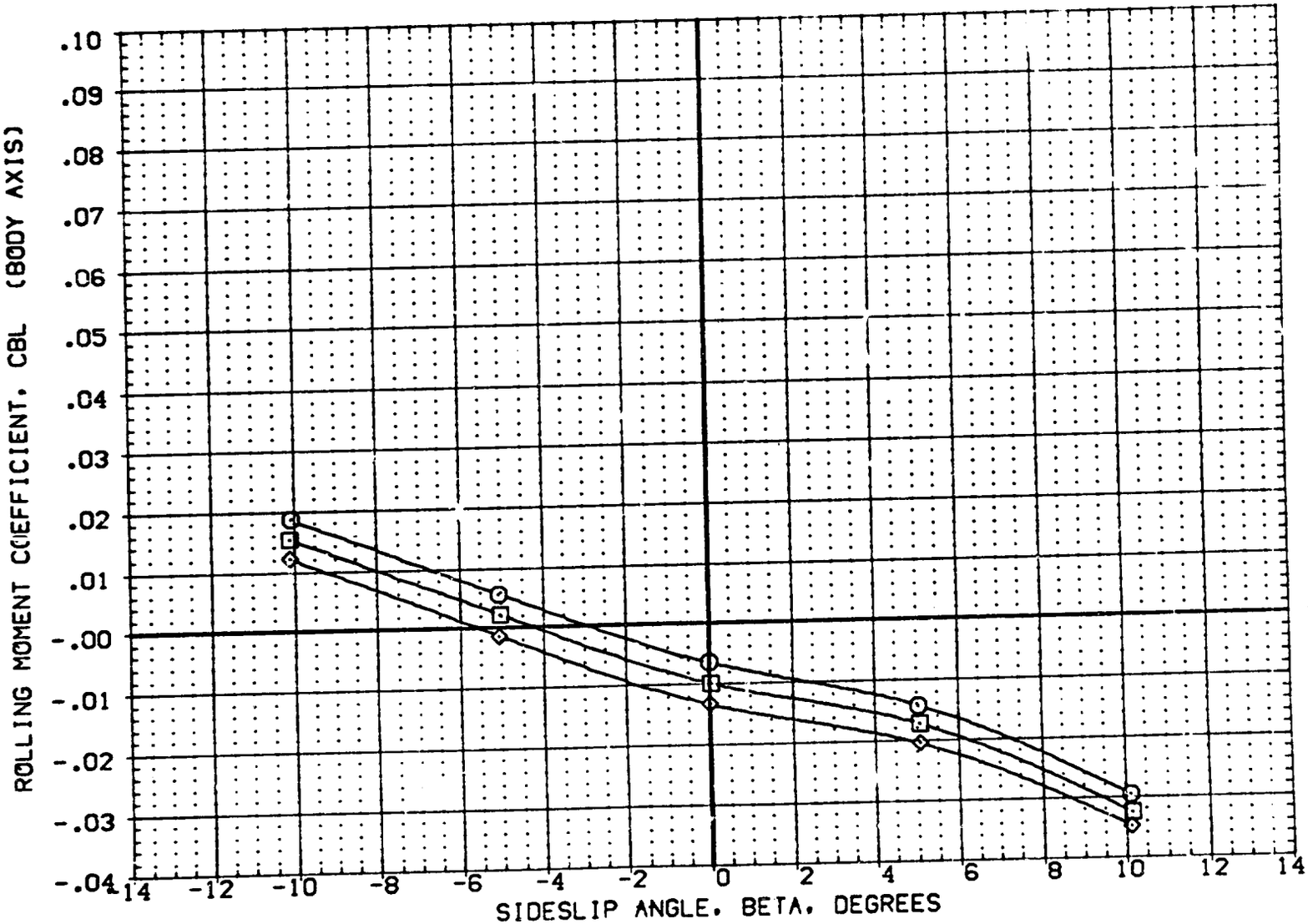


FIGURE 68 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP052)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP056)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP060)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	55.000
20.000	.000	-7.500	55.000
20.000	.000	-15.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

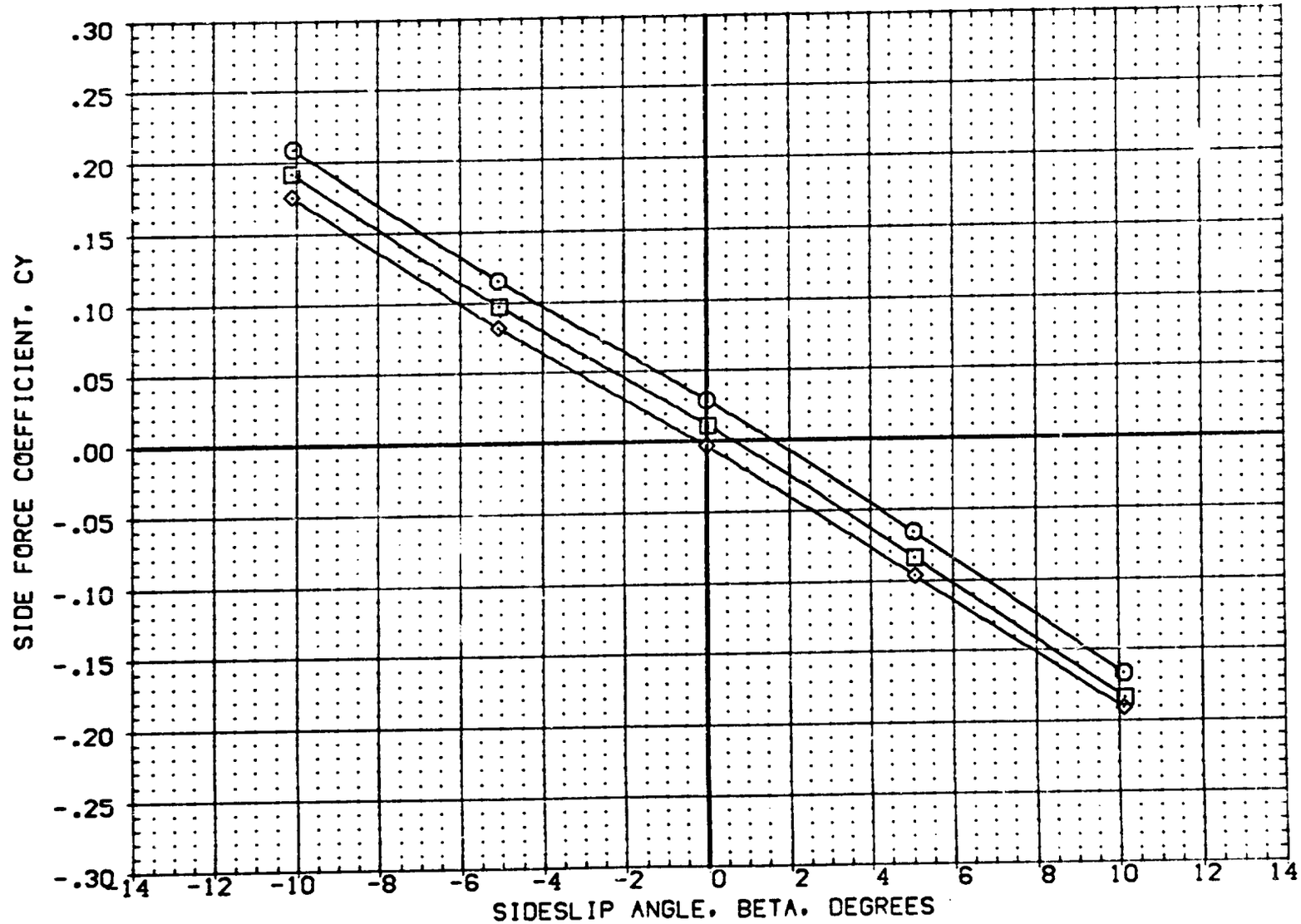


FIGURE 68 RUDDER EFFECTIVENESS WITH SPDBRK = 55 AND ALPHA = 20

(A)MACH = .26

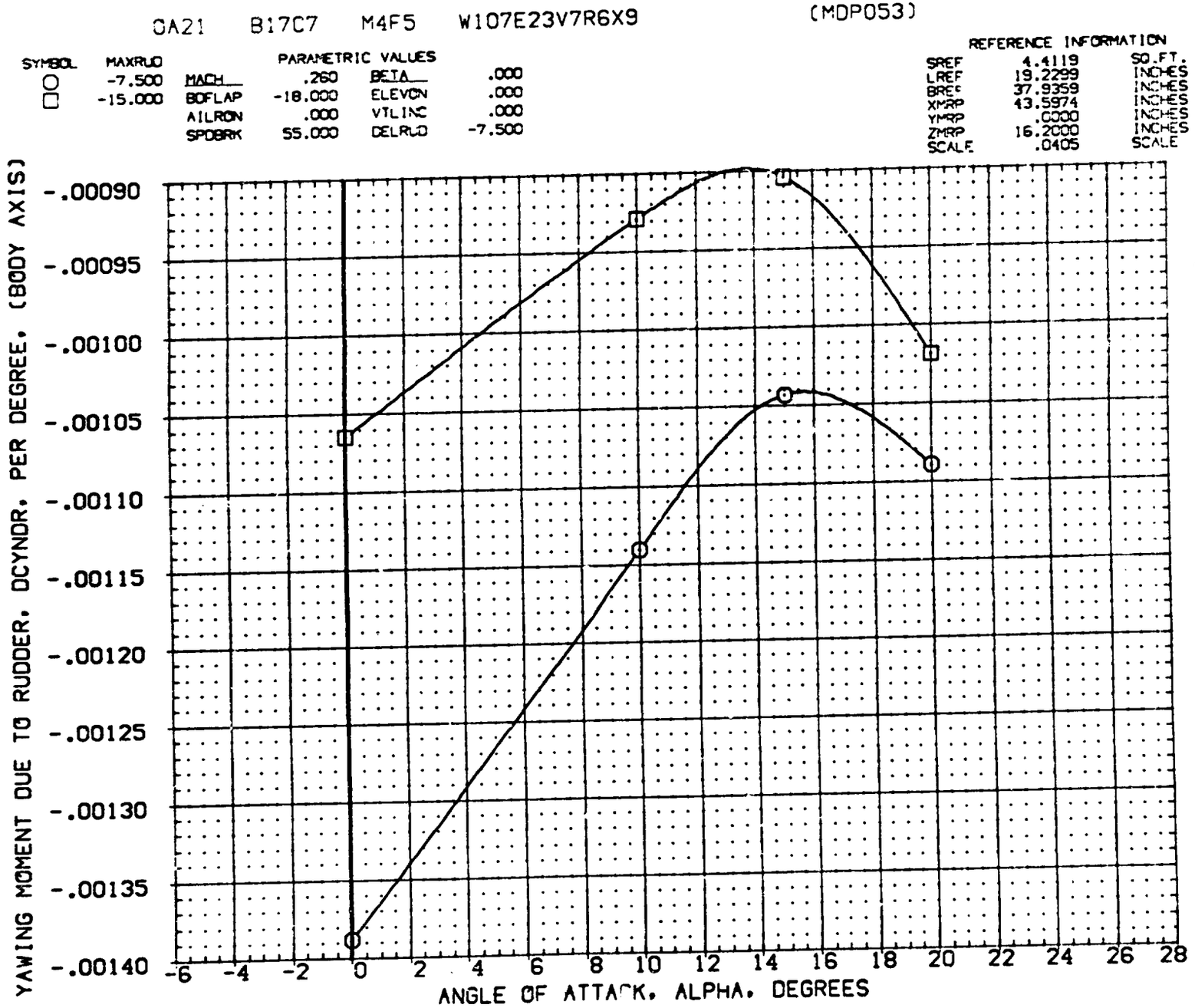


FIGURE 69 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 55

0A21 B17C7 M4F5 W107E23V7R6X9 (MDP053)

SYMBOL	MAXRUD
○	-7.500
□	-15.000

PARAMETRIC VALUES

MACH	.260	BETA	.000
BOFLAP	-18.000	ELEVON	.000
AILRON	.000	VTLINC	.000
SPOBRK	55.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

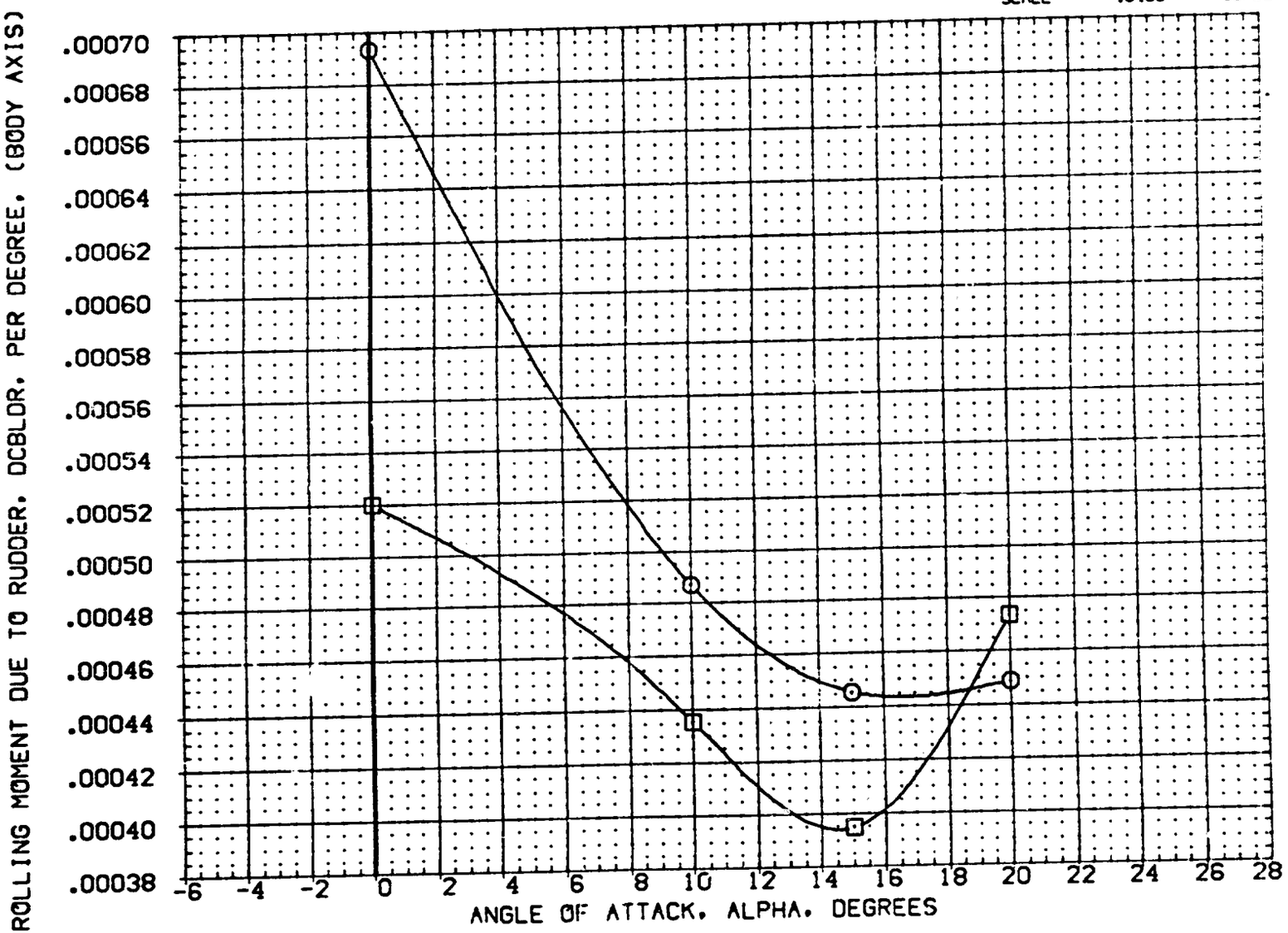


FIGURE 69 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPOBRK = 55

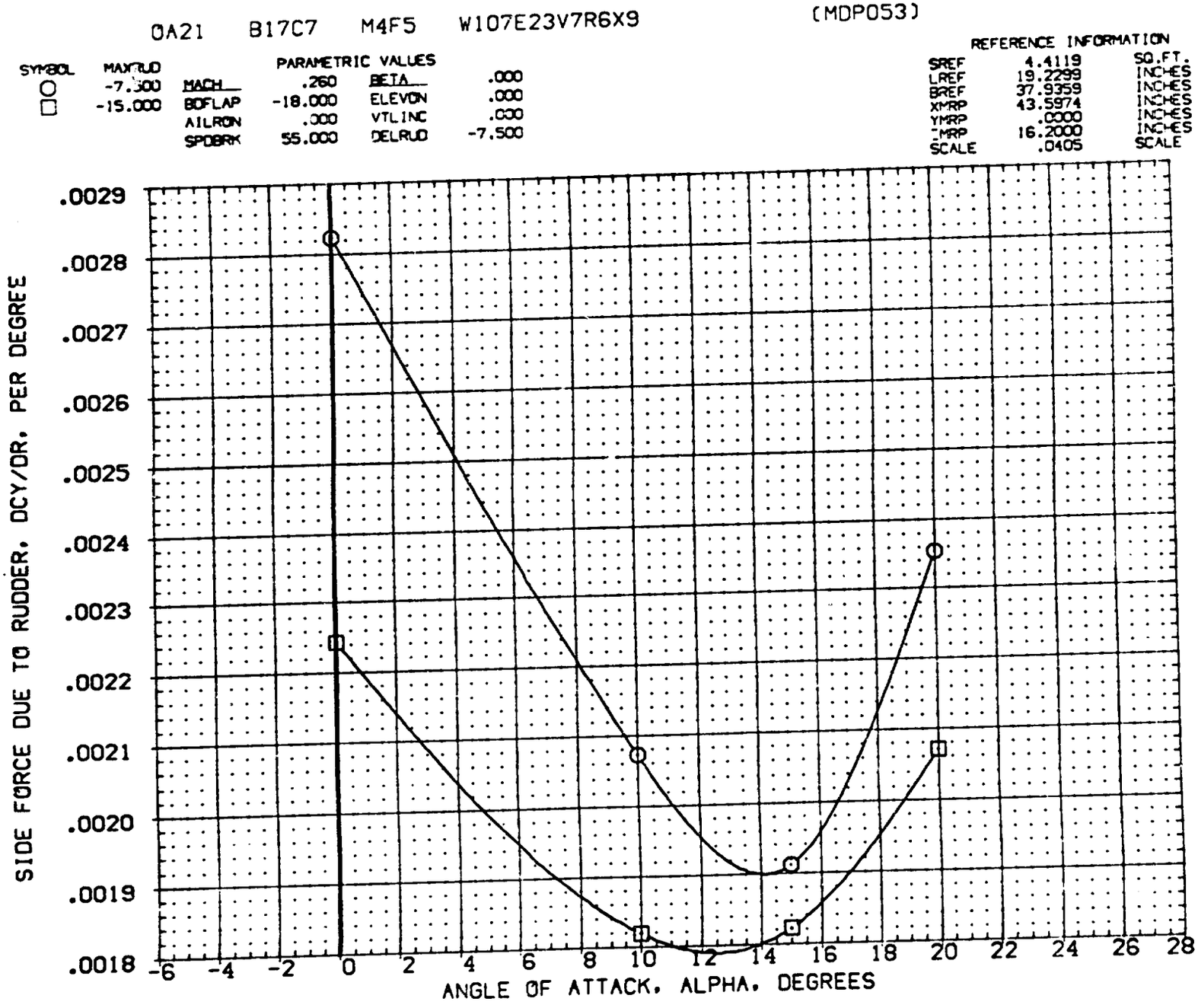


FIGURE 69 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 55

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP036)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP040)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP044)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	85.000
.000	.000	-7.500	85.000
.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

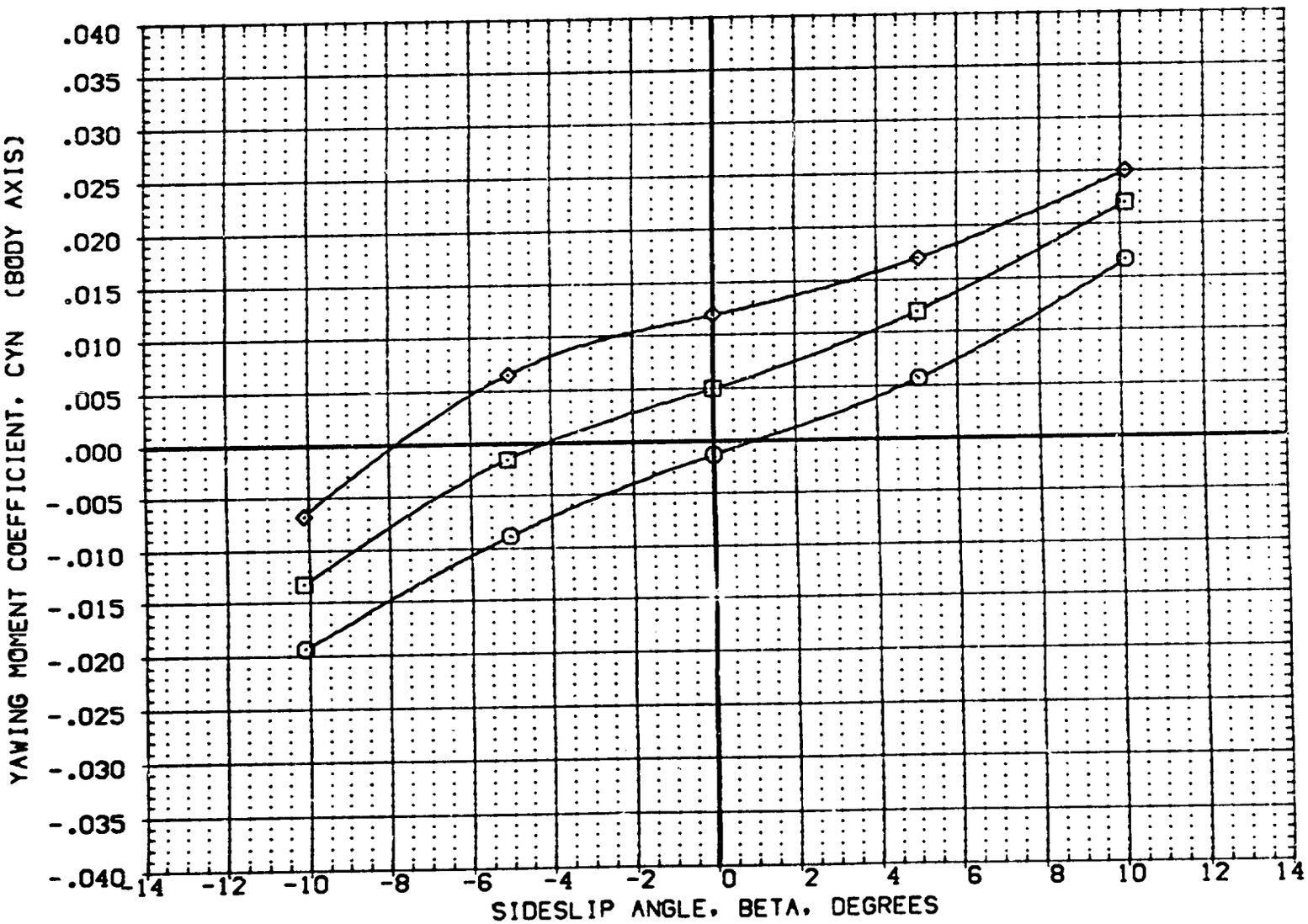


FIGURE 70 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[ROP036]	○	0A21	B17C7	M4F5	W107E23V7R6X9
[ROP040]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[ROP044]	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	85.000
.000	.000	-7.500	85.000
.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9355	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

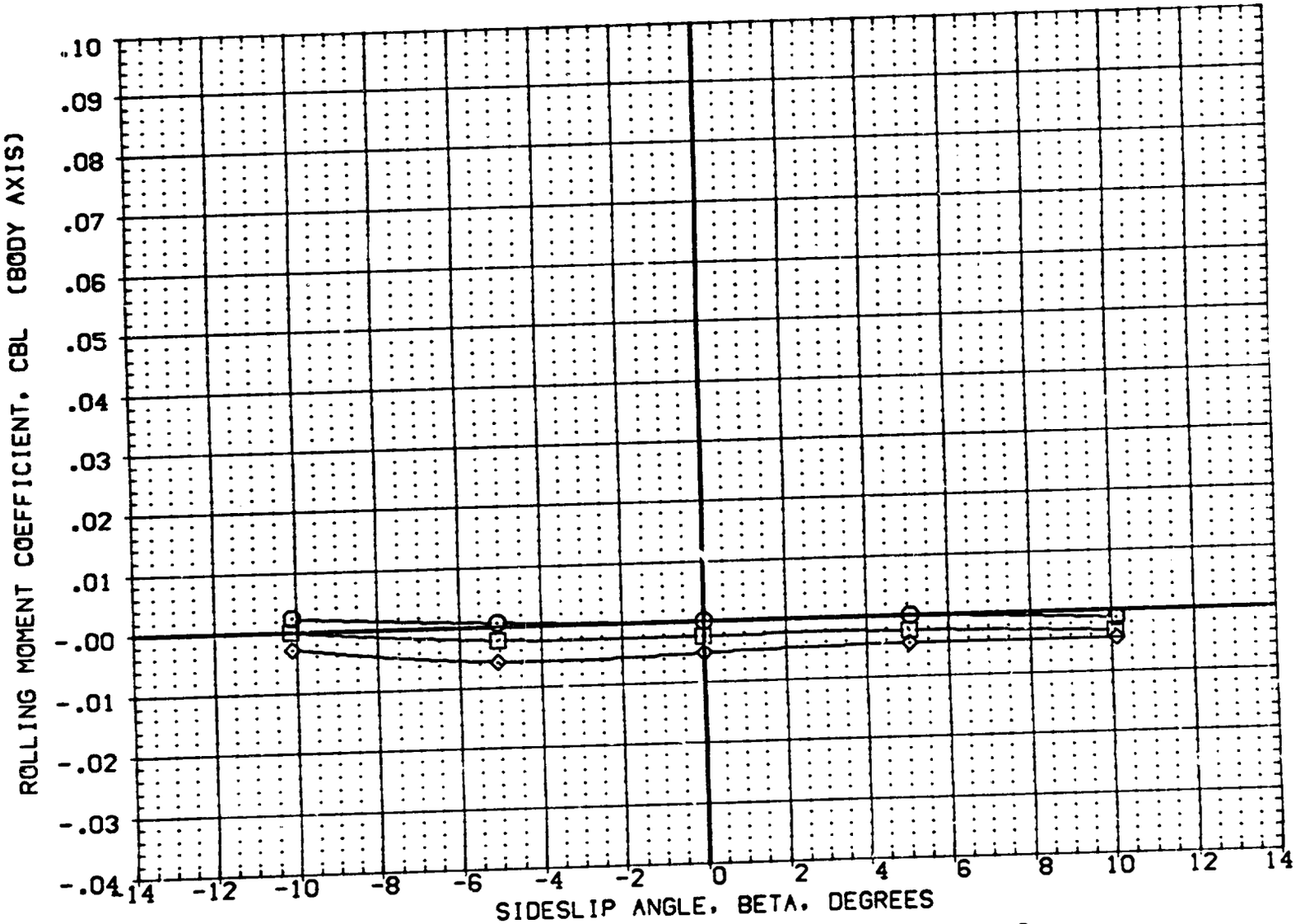


FIGURE 70 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 0

[A]MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP036)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP040)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP044)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	85.000
.000	.000	-7.500	85.000
.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

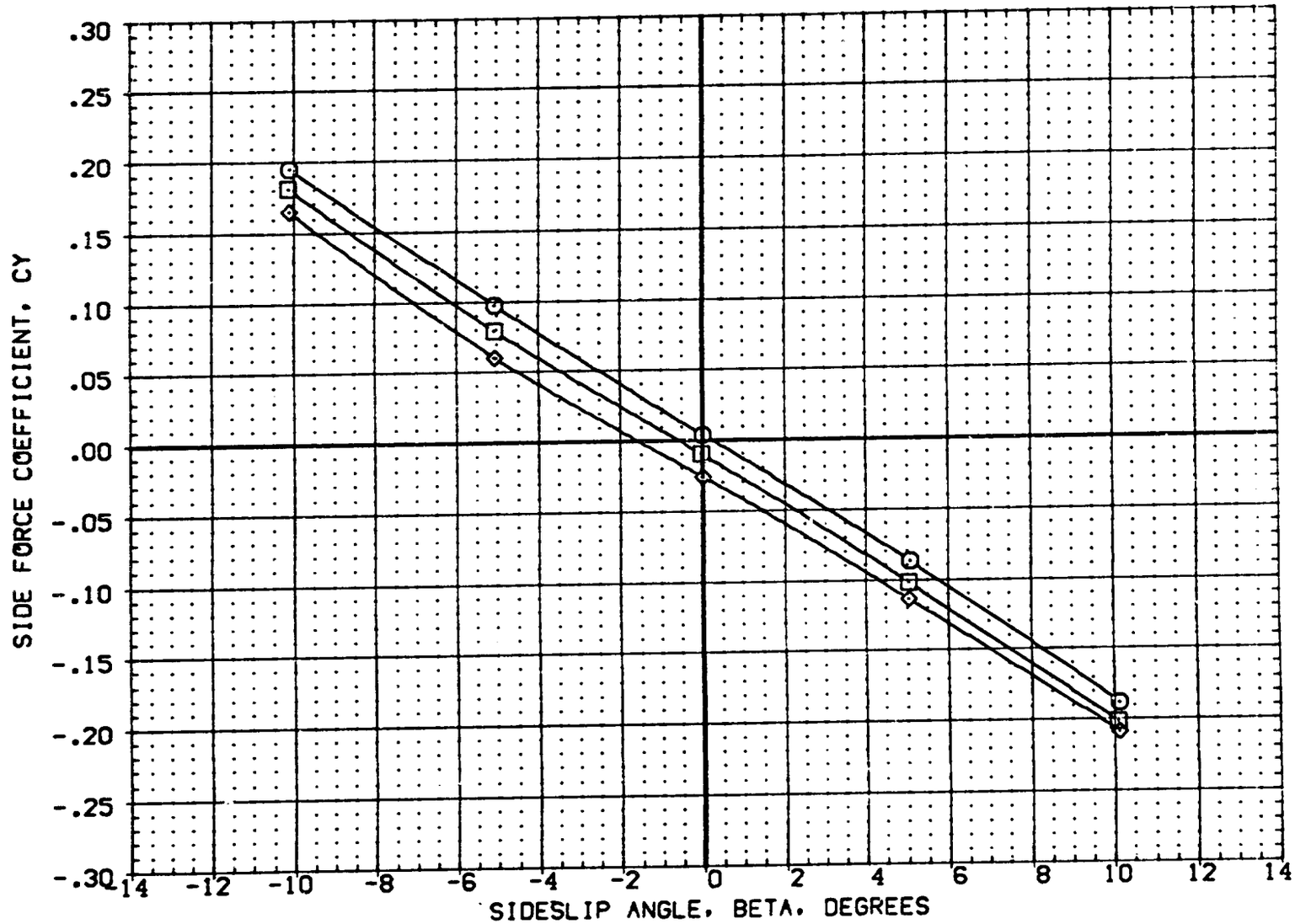


FIGURE 70 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 0

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP037)	○	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP041)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(RDP045)	◇	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	85.000
10.000	.000	-7.500	85.000
10.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

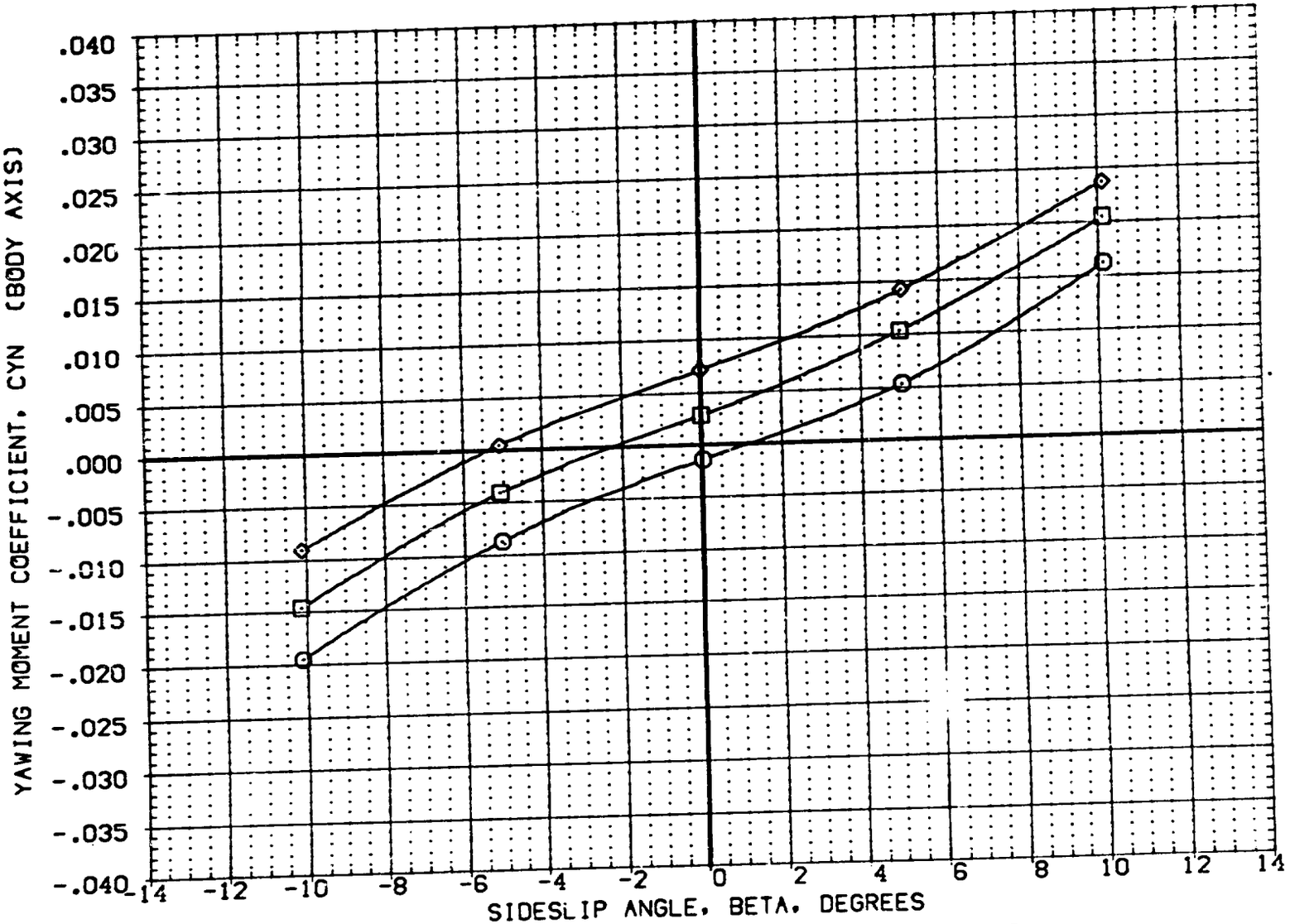


FIGURE 71 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP037)	○	DA21	B17C7	M4F5	W107E23V7R6X9
(ROP041)	□	DA21	B17C7	M4F5	W107E23V7R6X9
(ROP045)	◇	DA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	85.000
10.000	.000	-7.500	85.000
10.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

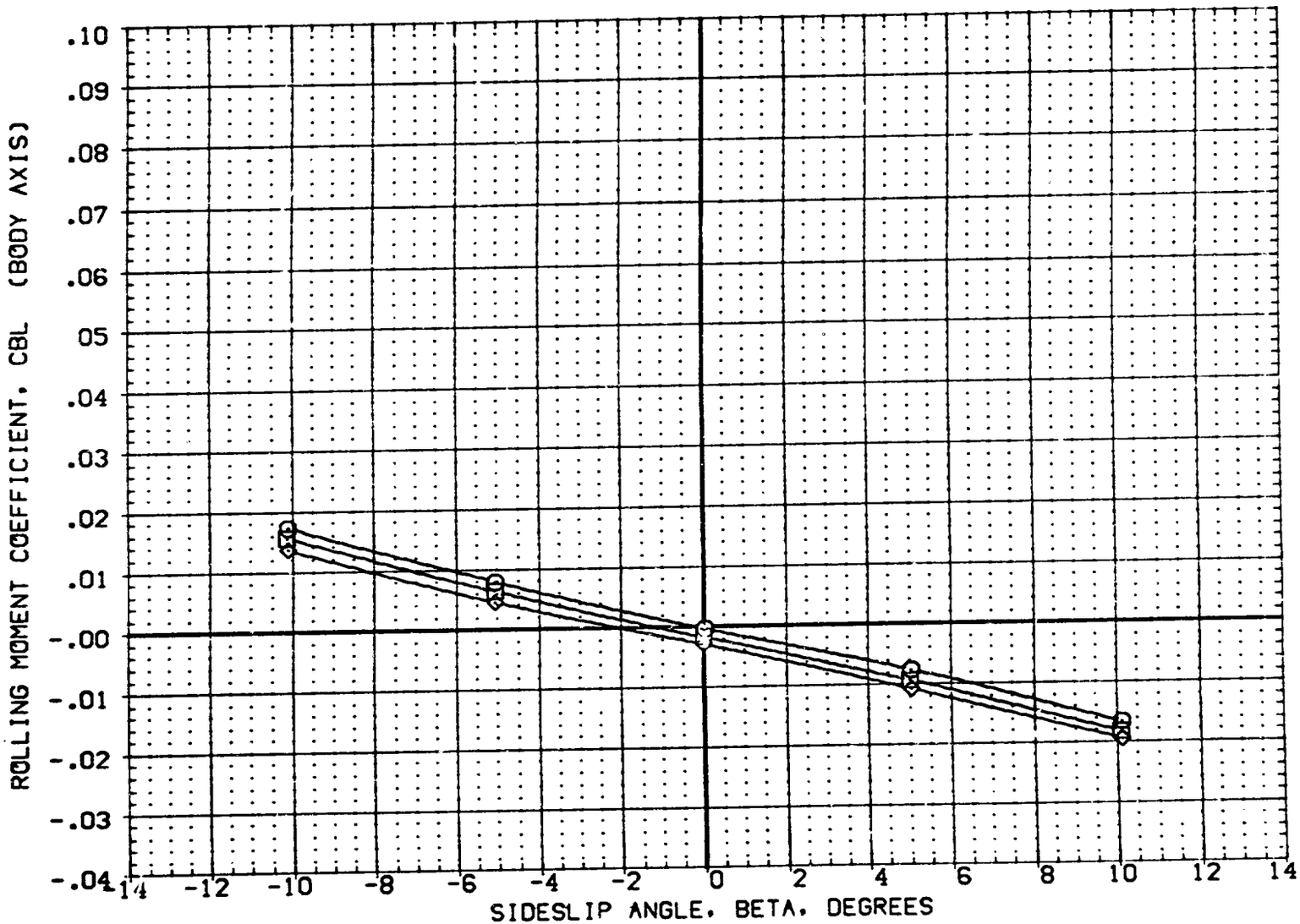


FIGURE 71 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP037)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP041)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP045)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
10.000	.000	.000	85.000
10.000	.000	-7.500	85.000
10.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2799	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

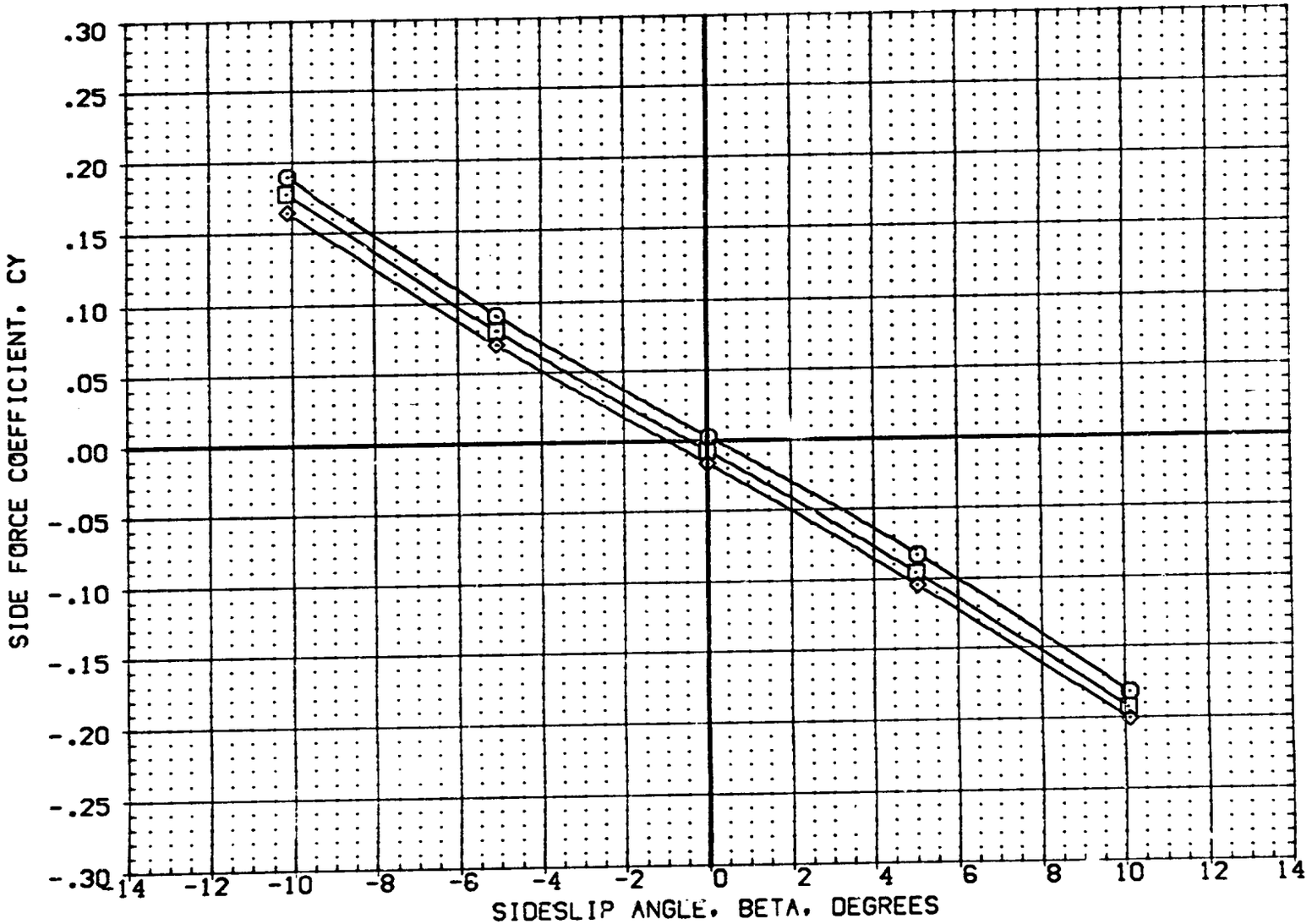


FIGURE 71 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 10

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP038)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP042)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP046)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	85.000
15.000	.000	-7.500	85.000
15.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

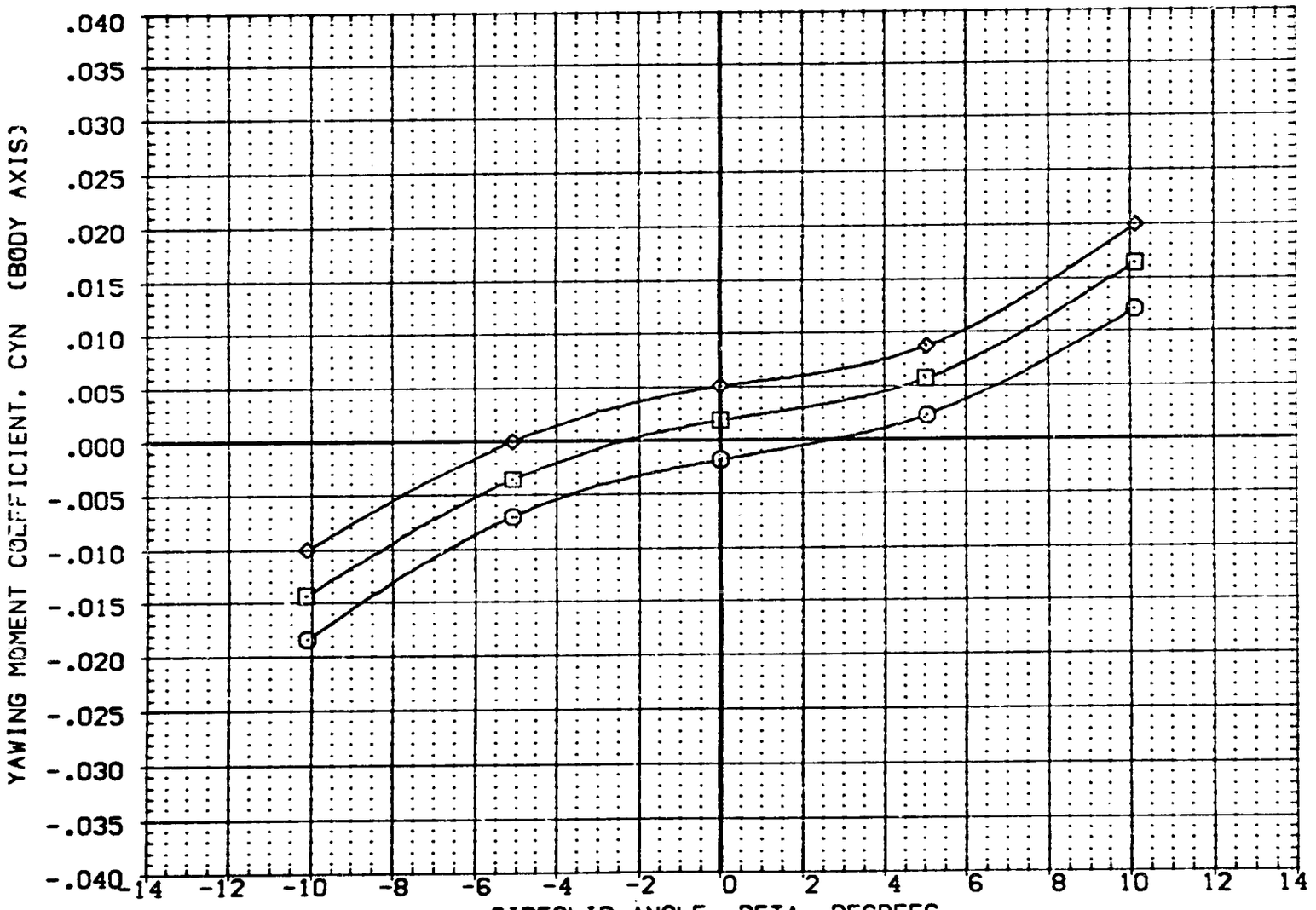


FIGURE 72 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP038)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP042)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP046)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
15.000	.000	.000	85.000
15.000	.000	-7.500	85.000
15.000	.000	-15.000	85.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

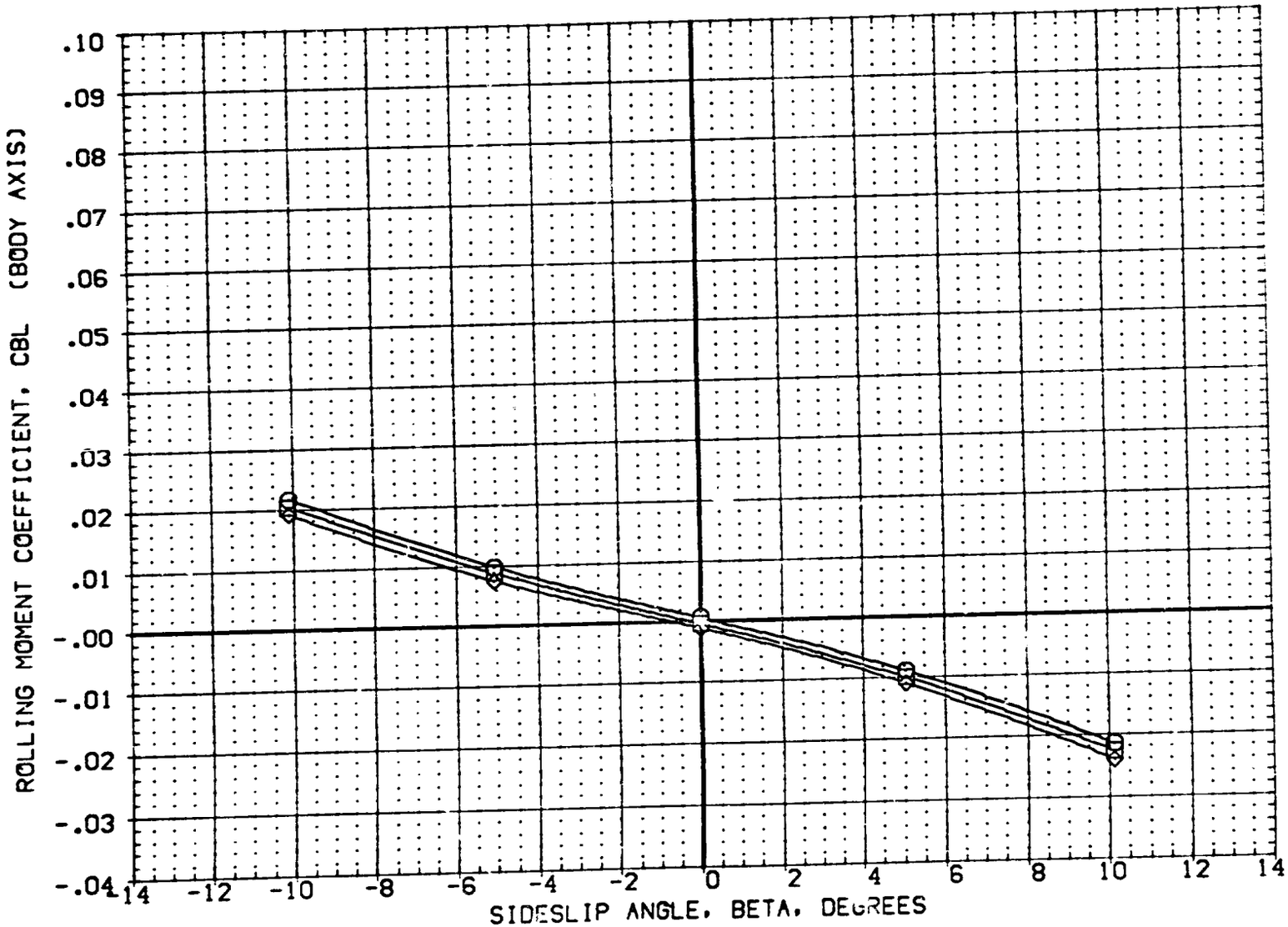


FIGURE 72 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 15

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
[ROP038]	○	0A21	B17C7	M4F5	W10/E23V7R6X9
[ROP042]	□	0A21	B17C7	M4F5	W107E23V7R6X9
[ROP046]	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
15.000	.000	.000	85.000
15.000	.000	-7.500	85.000
15.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2259	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

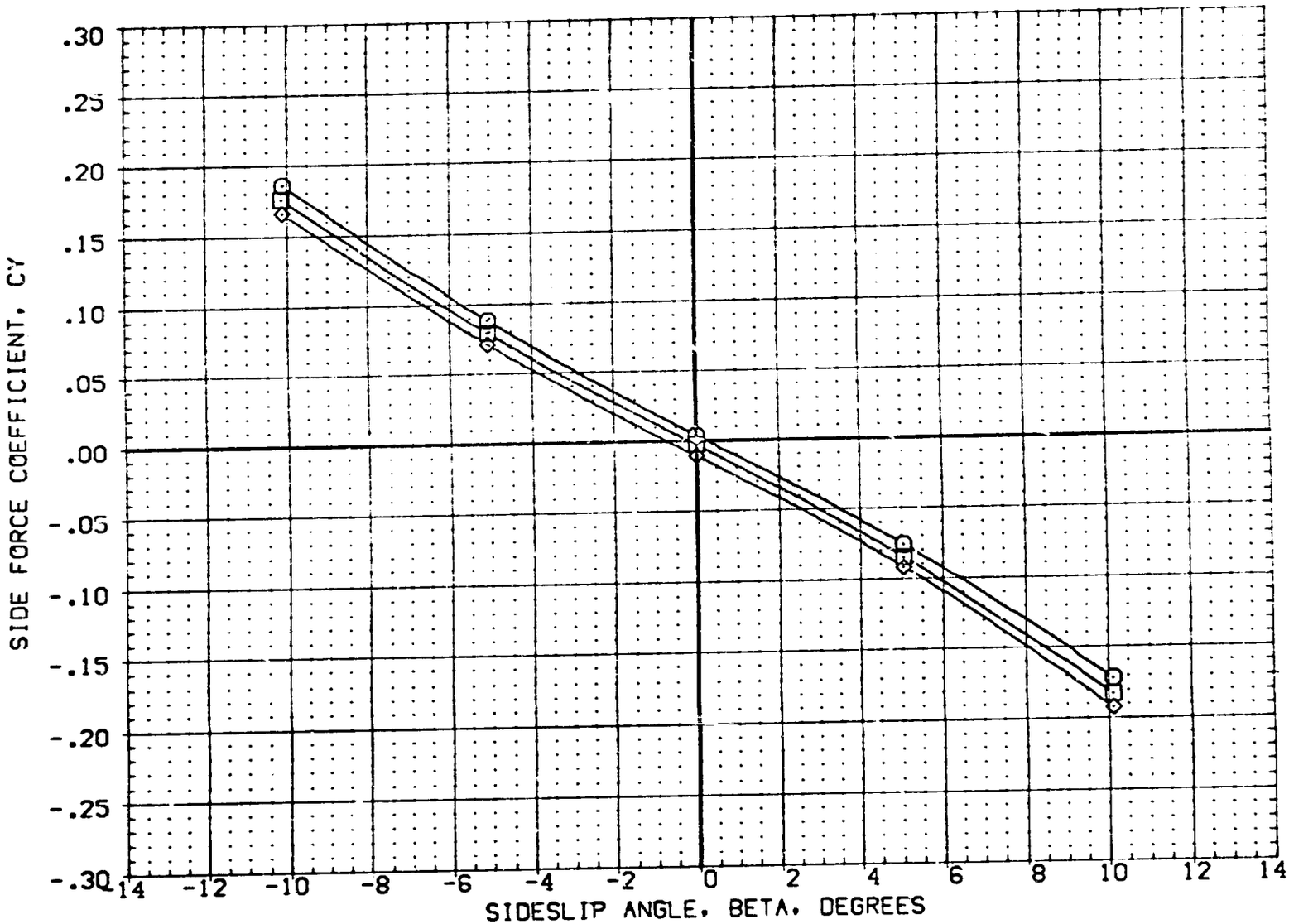


FIGURE 72 RUDDER EFFECTIVENESS WITH SPOBRK = 85 AND ALPHA = 15

[A]MACH = .26

DATA SET SYMBOL		CONFIGURATION DESCRIPTION			
(ROP039)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP043)	□	0A2.	B17C7	M4F5	W107E23V7R6X9
(ROP047)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	85.000
20.000	.000	-7.500	85.000
20.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

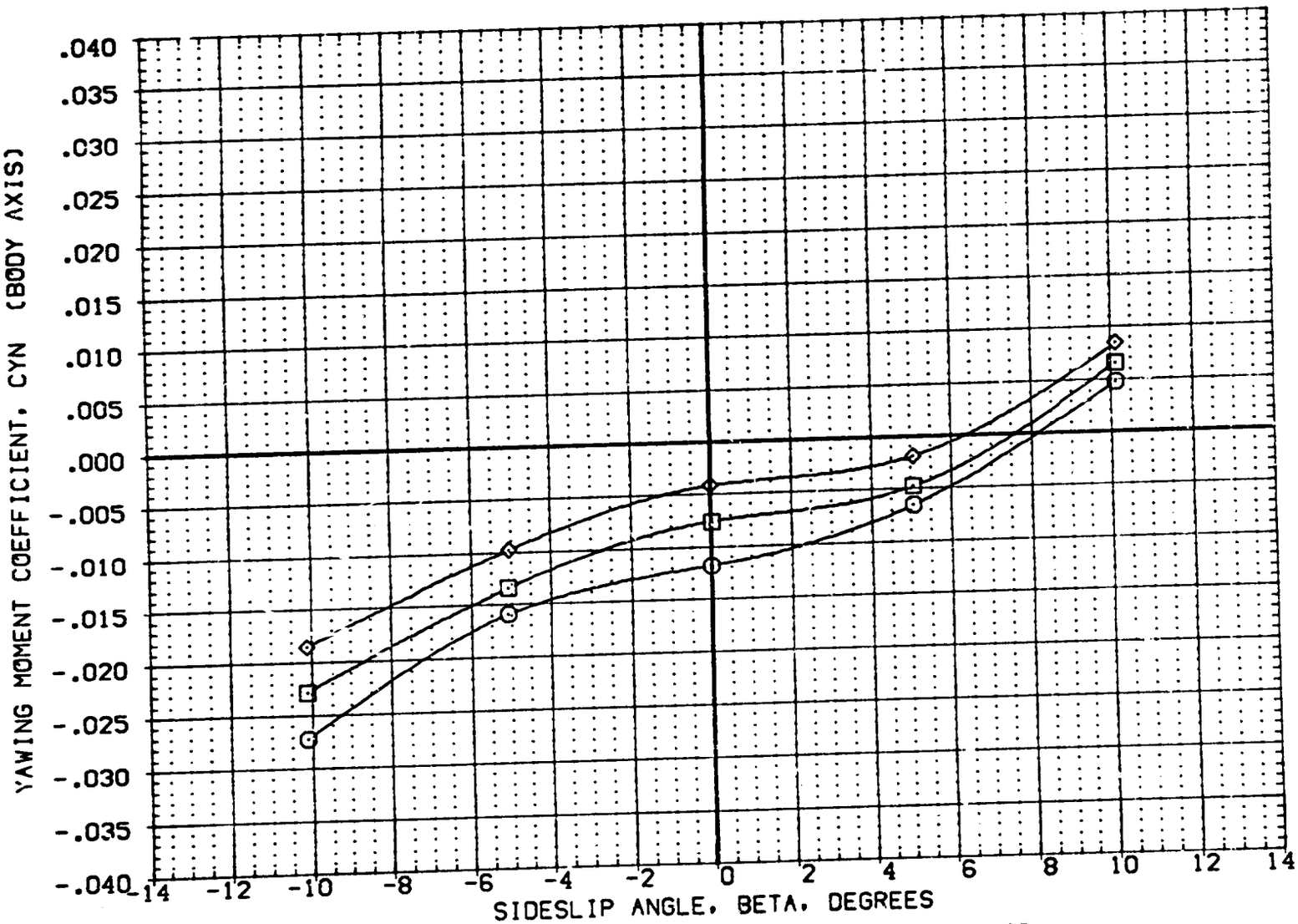


FIGURE 73 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RUN039)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RUN043)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RUN047)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	85.000
20.000	.000	-7.500	85.000
20.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	9.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040S	SCALE

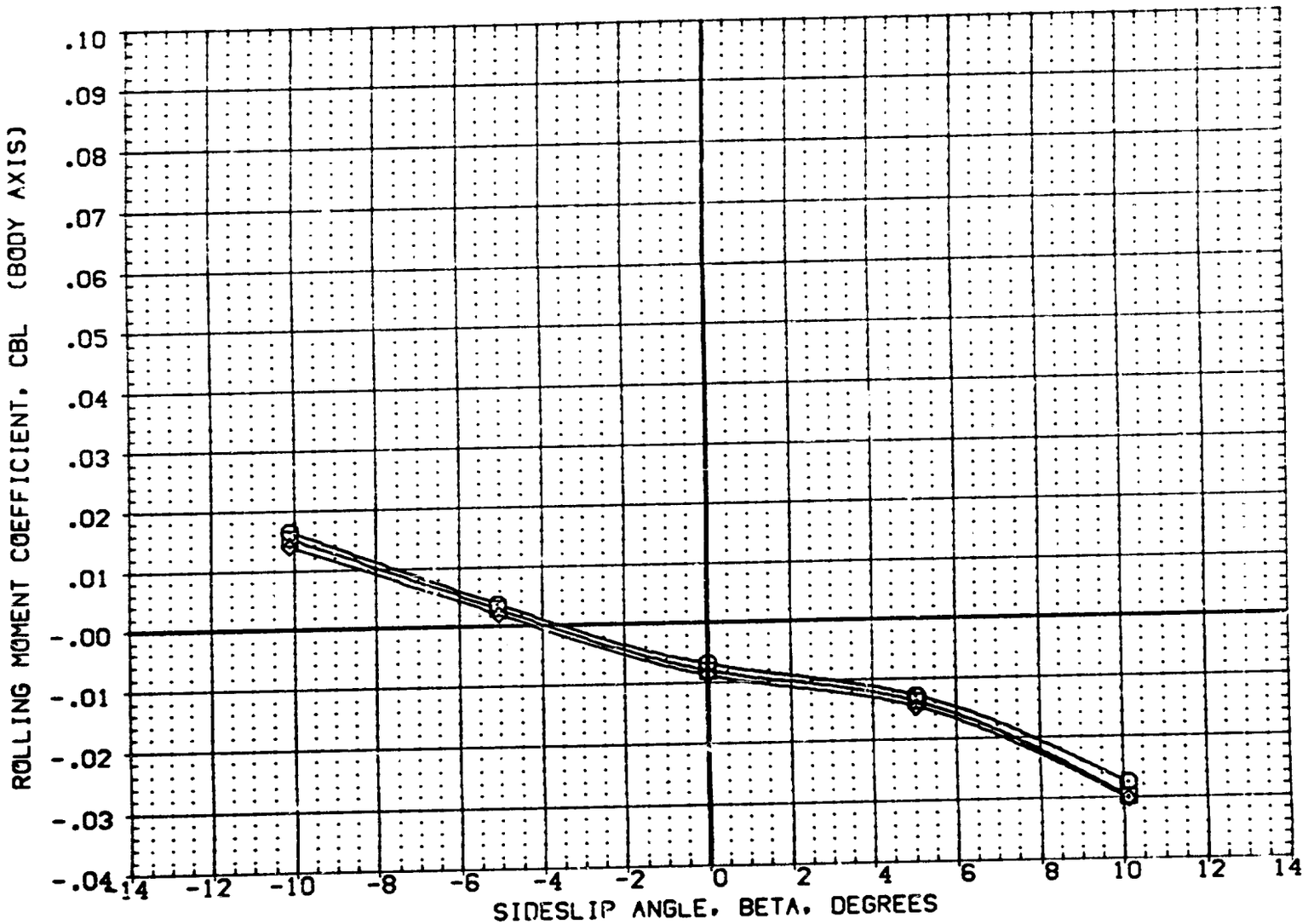


FIGURE 73 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 20

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP039)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP043)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP047)	◇	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
20.000	.000	.000	85.000
20.000	.000	-7.500	85.000
20.000	.000	-15.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

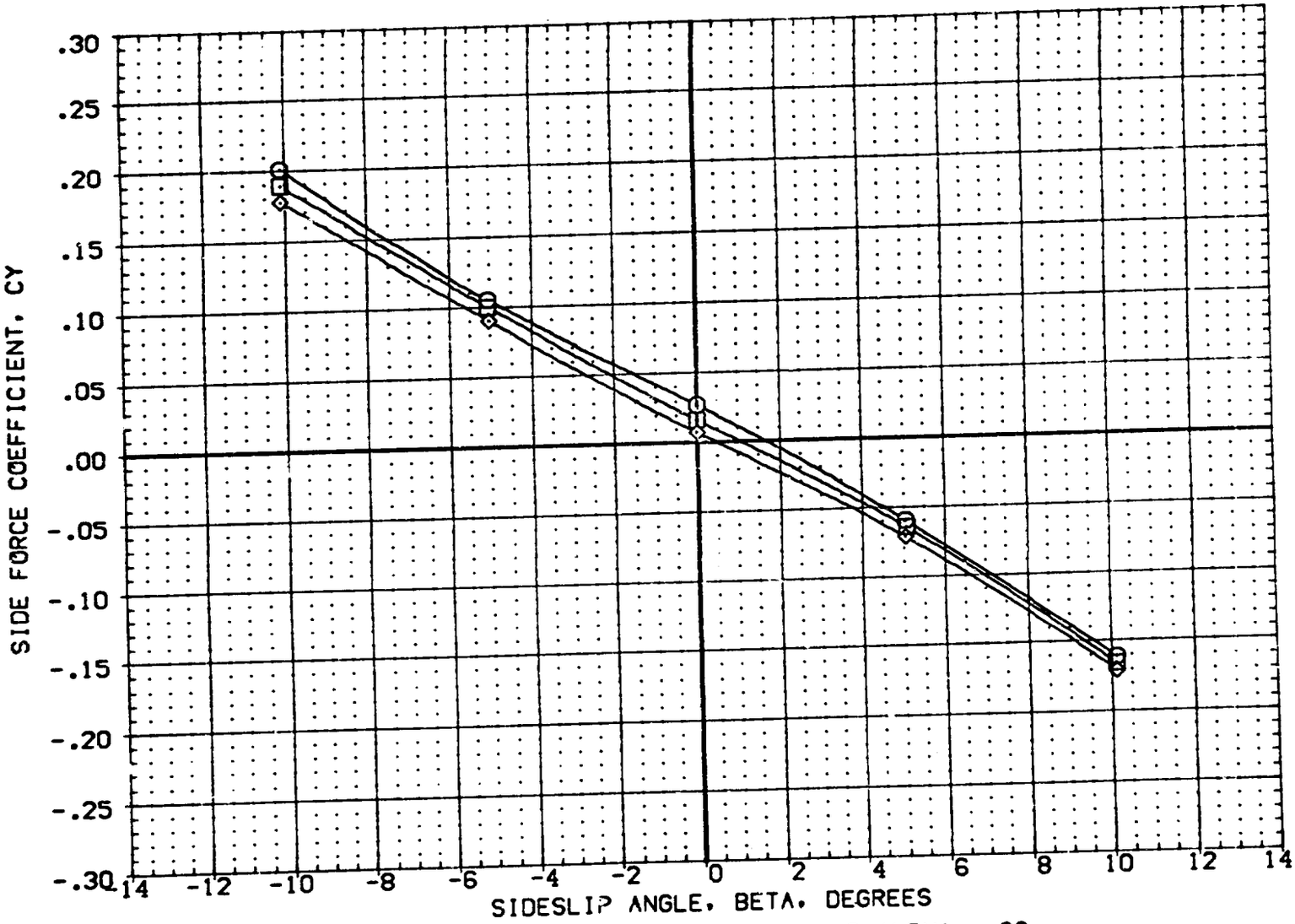


FIGURE 73 RUDDER EFFECTIVENESS WITH SPDBRK = 85 AND ALPHA = 20

(A)MACH = .26

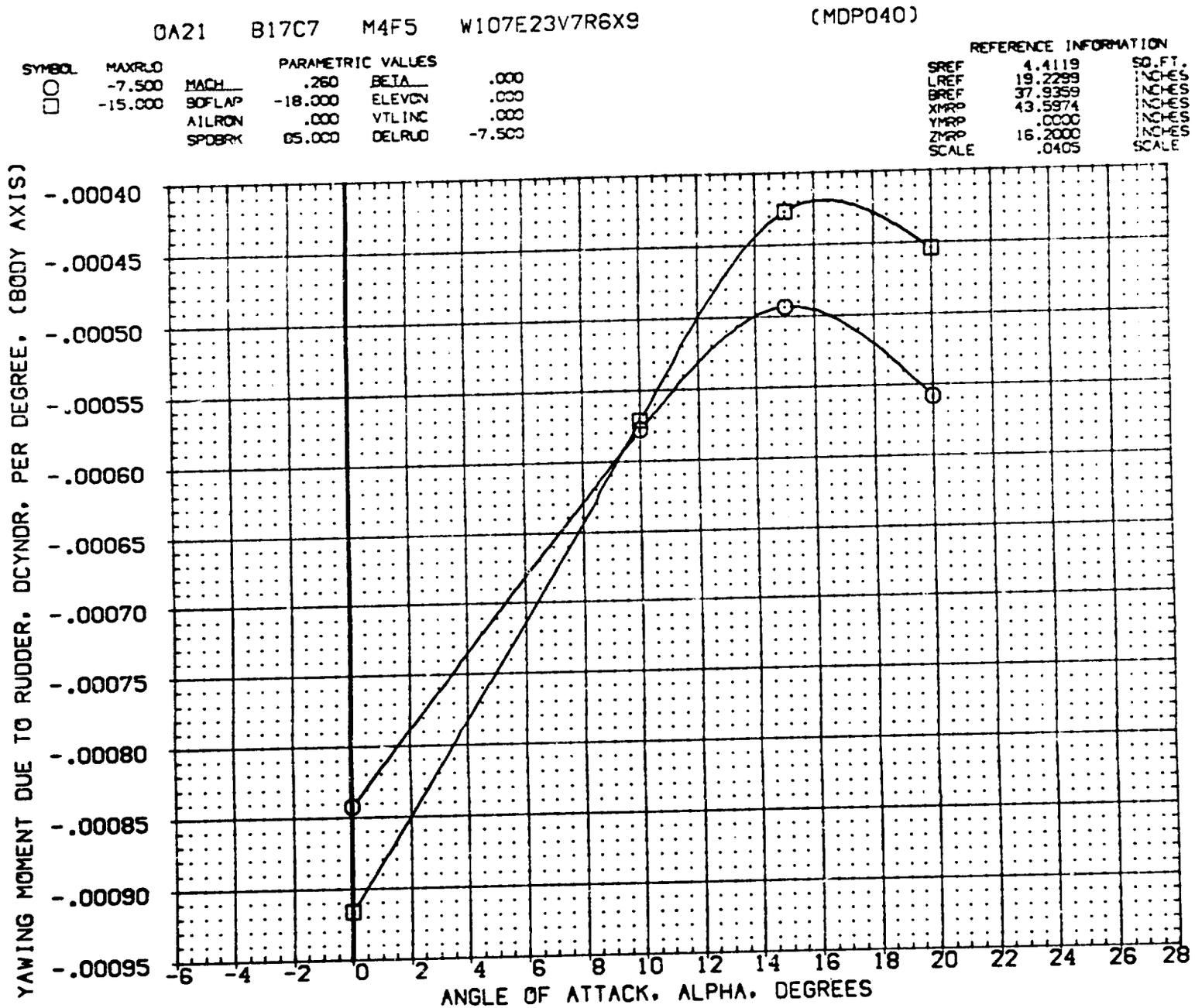


FIGURE 74 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 85

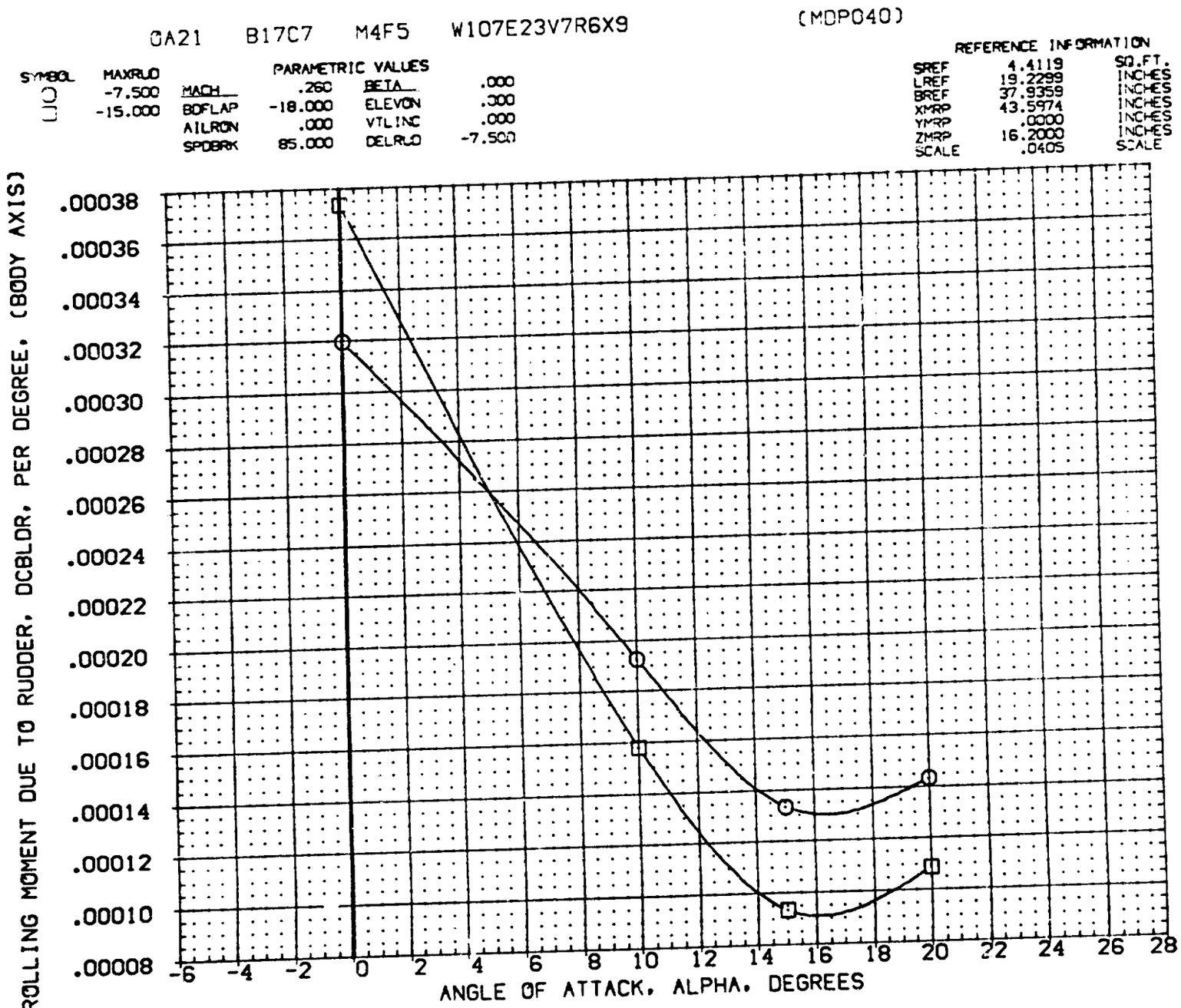


FIGURE 74 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 85 .

0A21 B17C7 M4F5 W107E23V7R6X9 (MDP040)

SYMBOL	MAXRUD		PARAMETRIC VALUES		
○	-7.500	MACH	.260	BETA	.000
□	-15.000	BOFLAP	-18.000	ELEVON	.000
		AILRON	.000	VTLINC	.000
		SPDBRK	85.000	DELRUD	-7.500

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2799	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

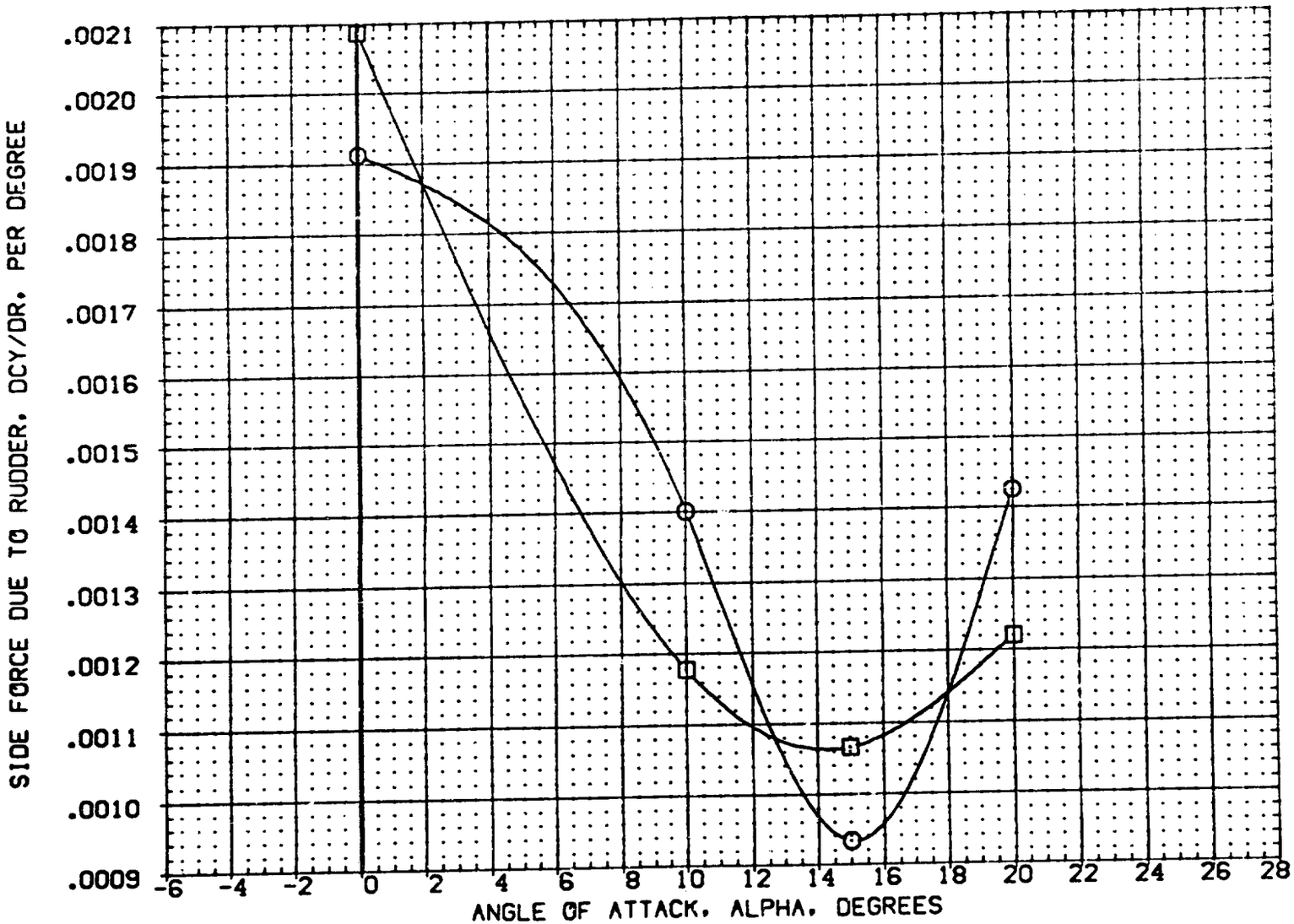


FIGURE 74 VARIATION OF RUDDER CONTROL DERIVATIVES WITH ALPHA FOR SPDBRK = 85

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP010)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP011)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP012)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP013)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
.000	.000	.000	.000
10.000	.000	.000	.000
15.000	.000	.000	.000
20.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

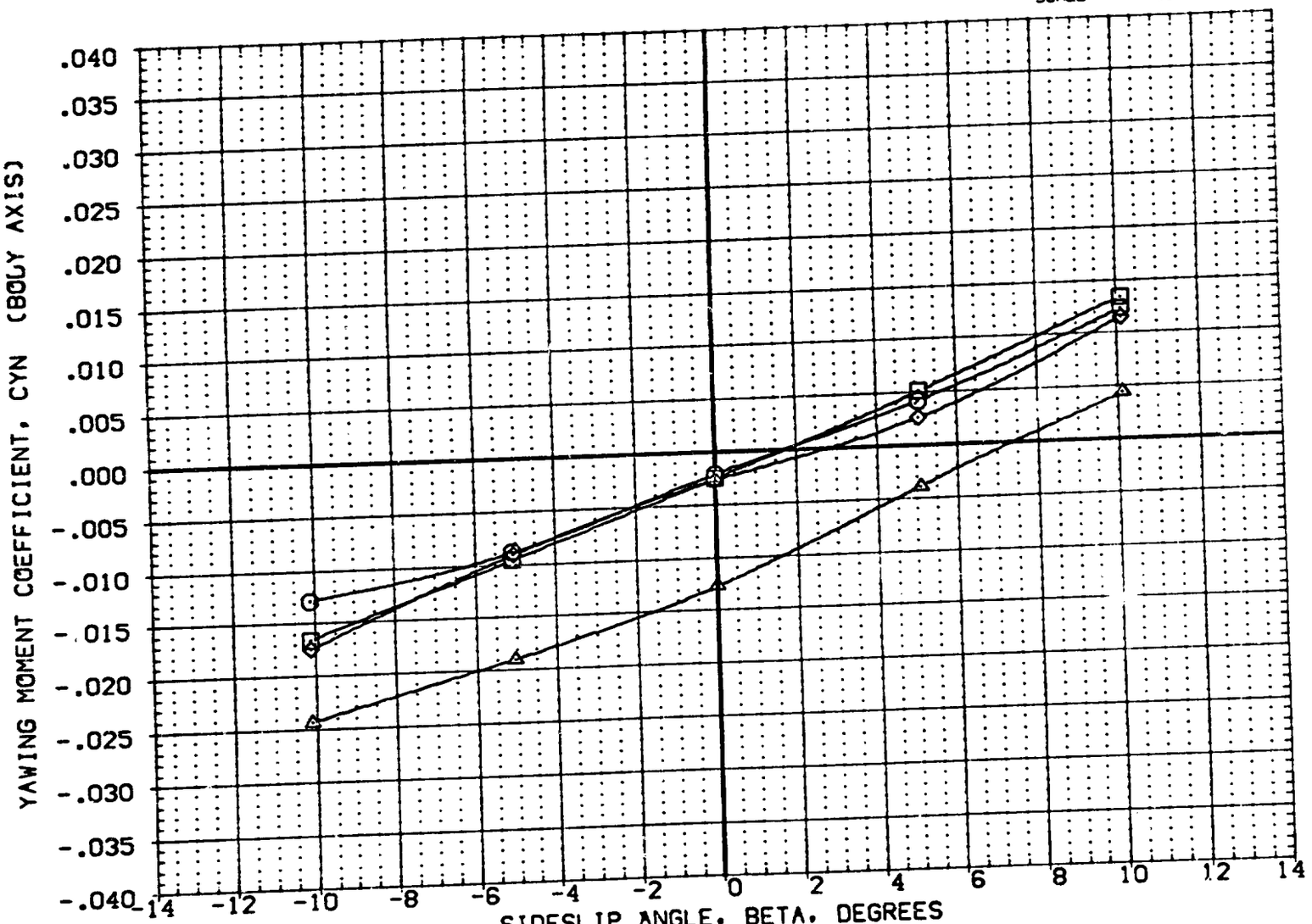


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	AILRON	RUDDER	SPDBRK
(RDP010)		0A21	B17C7	M4F5	W107E23V7R6X9	.000	.000	.000	.000
(RDP011)		0A21	B17C7	M4F5	W107E23V7R6X9	10.000	.000	.000	.000
(RDP012)		0A21	B17C7	M4F5	W107E23V7R6X9	15.000	.000	.000	.000
(RDP013)		0A21	B17C7	M4F5	W107E23V7R6X9	20.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

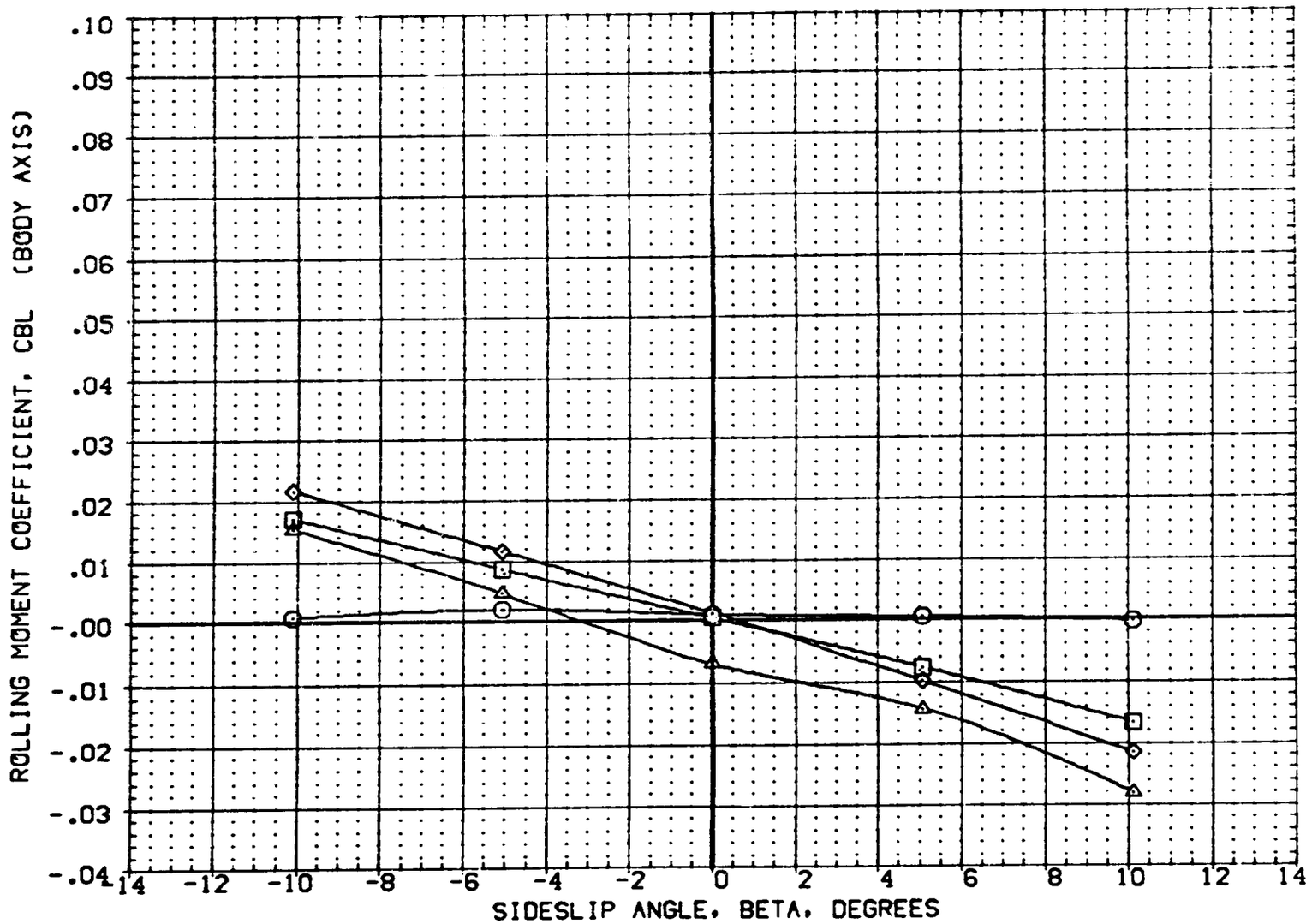


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP010)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP011)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP012)	⊠	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP013)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	.000
10.000	.000	.000	.000
15.000	.000	.000	.000
20.000	.000	.000	.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

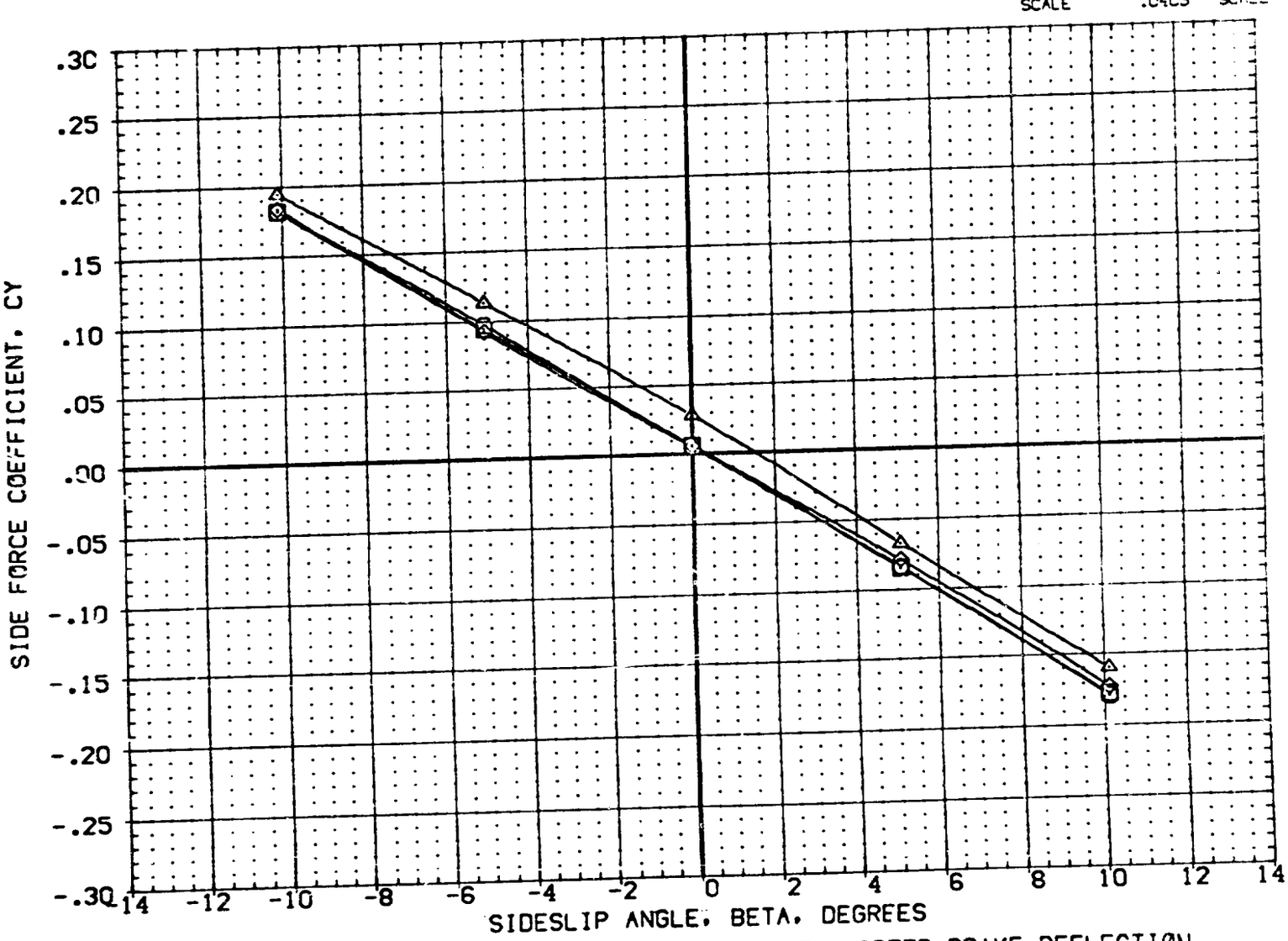


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP010)

SYMBOL	MACH	PARAMETRIC VALUES					DATA SOURCE				REFERENCE INFORMATION		
○	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP010	.000	JDP011	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	.000	JDP012	15.000	JDP013	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

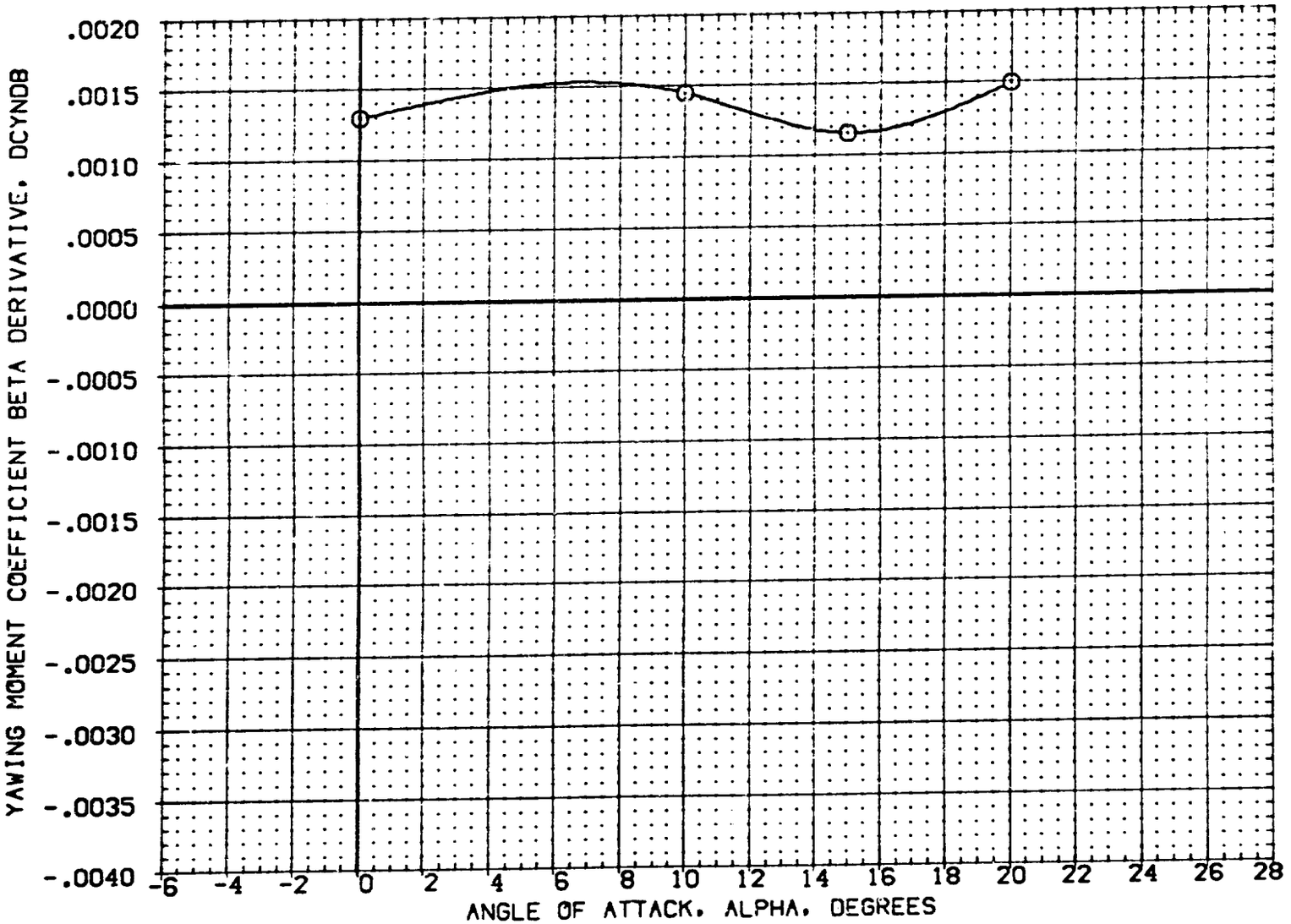


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

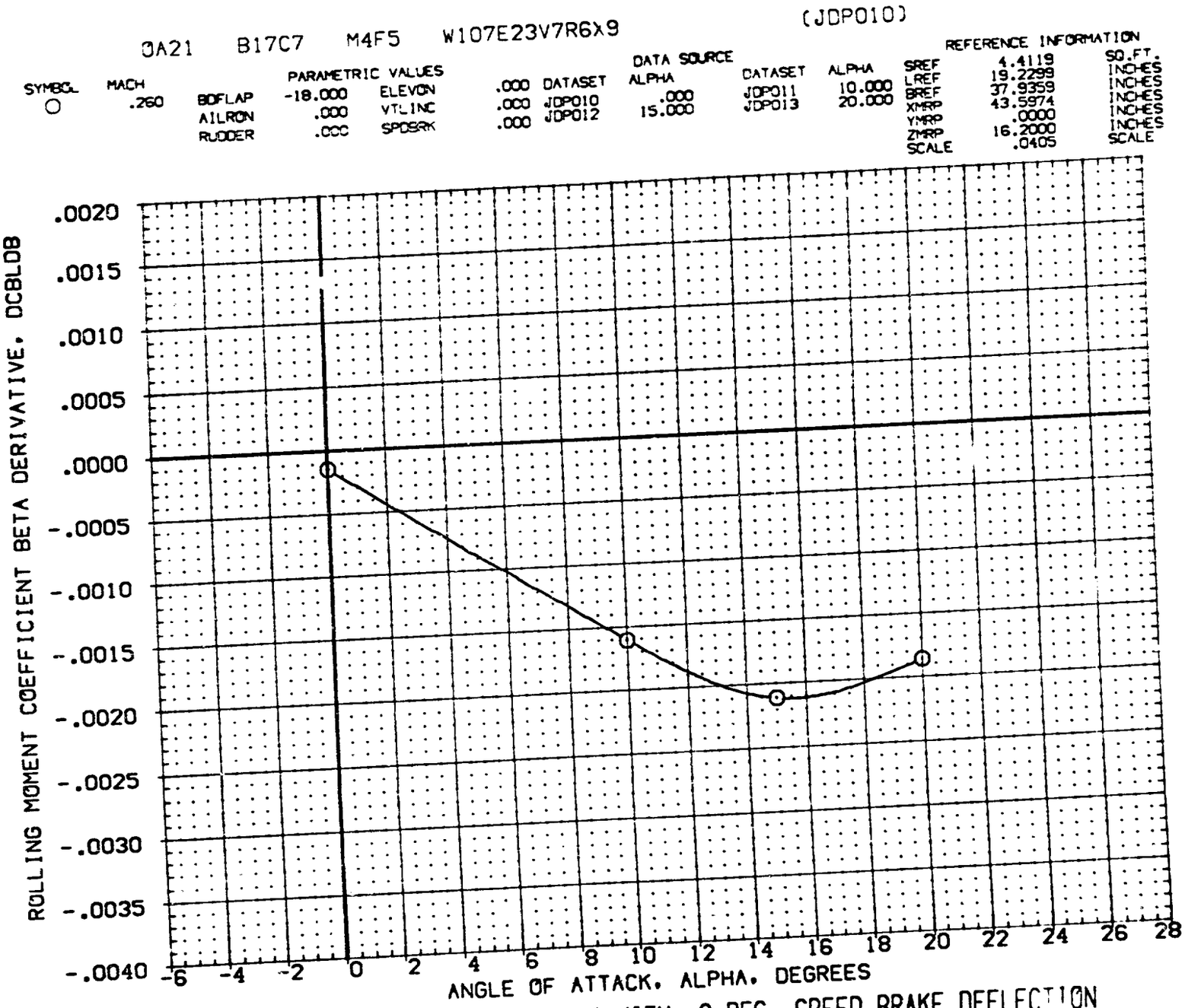


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP010)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	ALPHA	DATASET	ALPHA			
○	.260	BOFLAP	-18.000	ELEVON	.000	JDP010	.000	JDP011	10.000	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP012	15.000	JDP013	20.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	.000					BREF	37.935	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

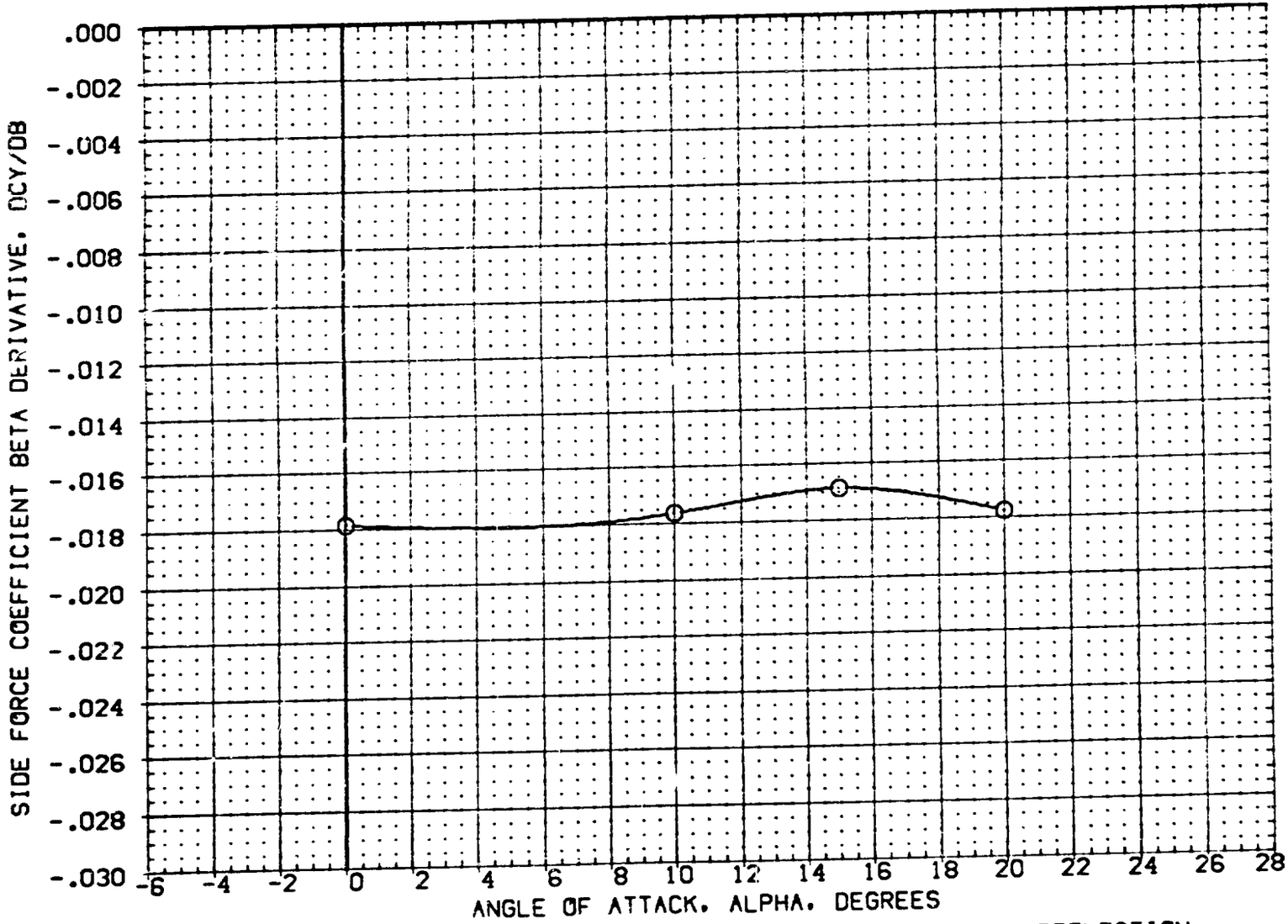


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 0 DEG. SPEED BRAKE DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP023)	□	OA21	B17C7	M4F5	W107E23V7R6X9
(ROP024)	□	OA21	B17C7	M4F5	W107E23V7R6X9
(ROP025)	⊠	OA21	B17C7	M4F5	W107E23V7R6X9
(ROP026)	△	OA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	25.000
10.000	.000	.000	25.000
15.000	.000	.000	25.000
20.000	.000	.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

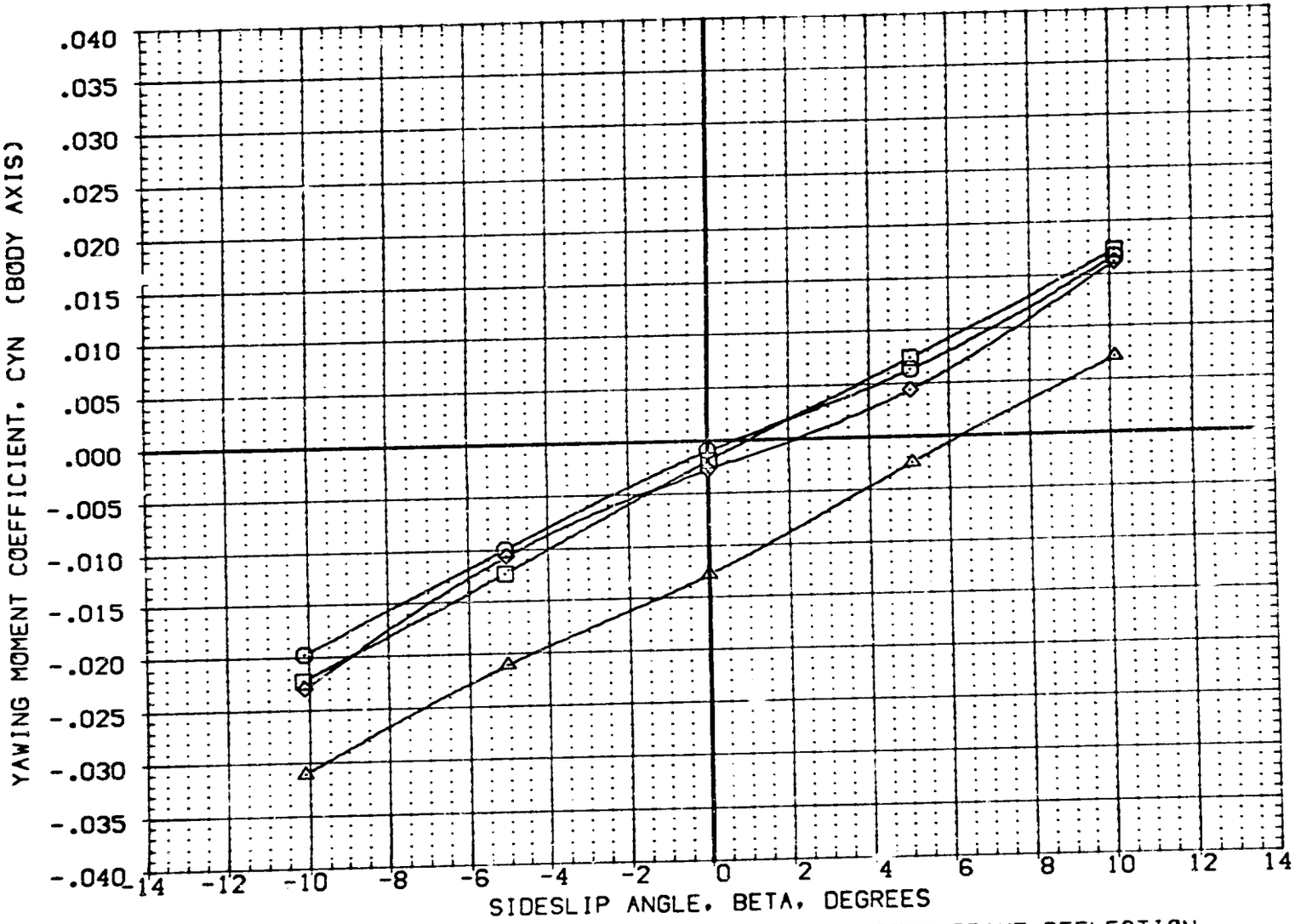


FIGURE 76 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP023)	○	CA21	B17C7	M4F5	W107E23V7R6X9
(RDP024)	□	CA21	B17C7	M4F5	W107E23V7R6X9
(RDP025)	⊠	CA21	B17C7	M4F5	W107E23V7R6X9
(RDP026)	△	CA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	25.000
10.000	.000	.000	25.000
15.000	.000	.000	25.000
20.000	.000	.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2200	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

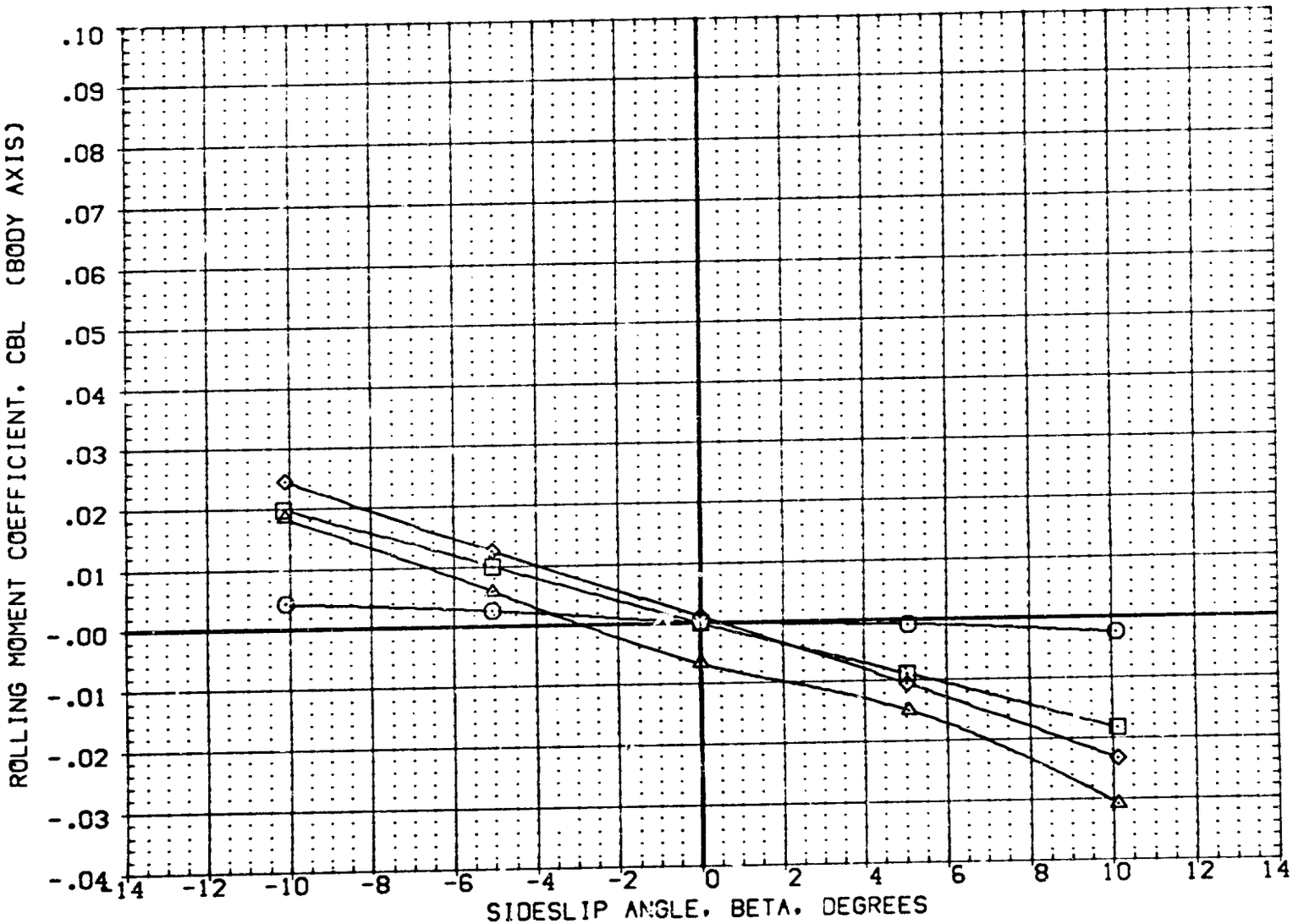


FIGURE 76 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP023)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP024)	□	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP025)	⊠	0A21	B17C7	M4F5	V107E23V7R6X9
(ROP026)	△	0A21	B17C7	M4F5	V107E23V7R6X9

ALPHA	AILRON	RUDDER	SPUBRK
.000	.000	.000	25.000
10.000	.000	.000	25.000
15.000	.000	.000	25.000
20.000	.000	.000	25.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

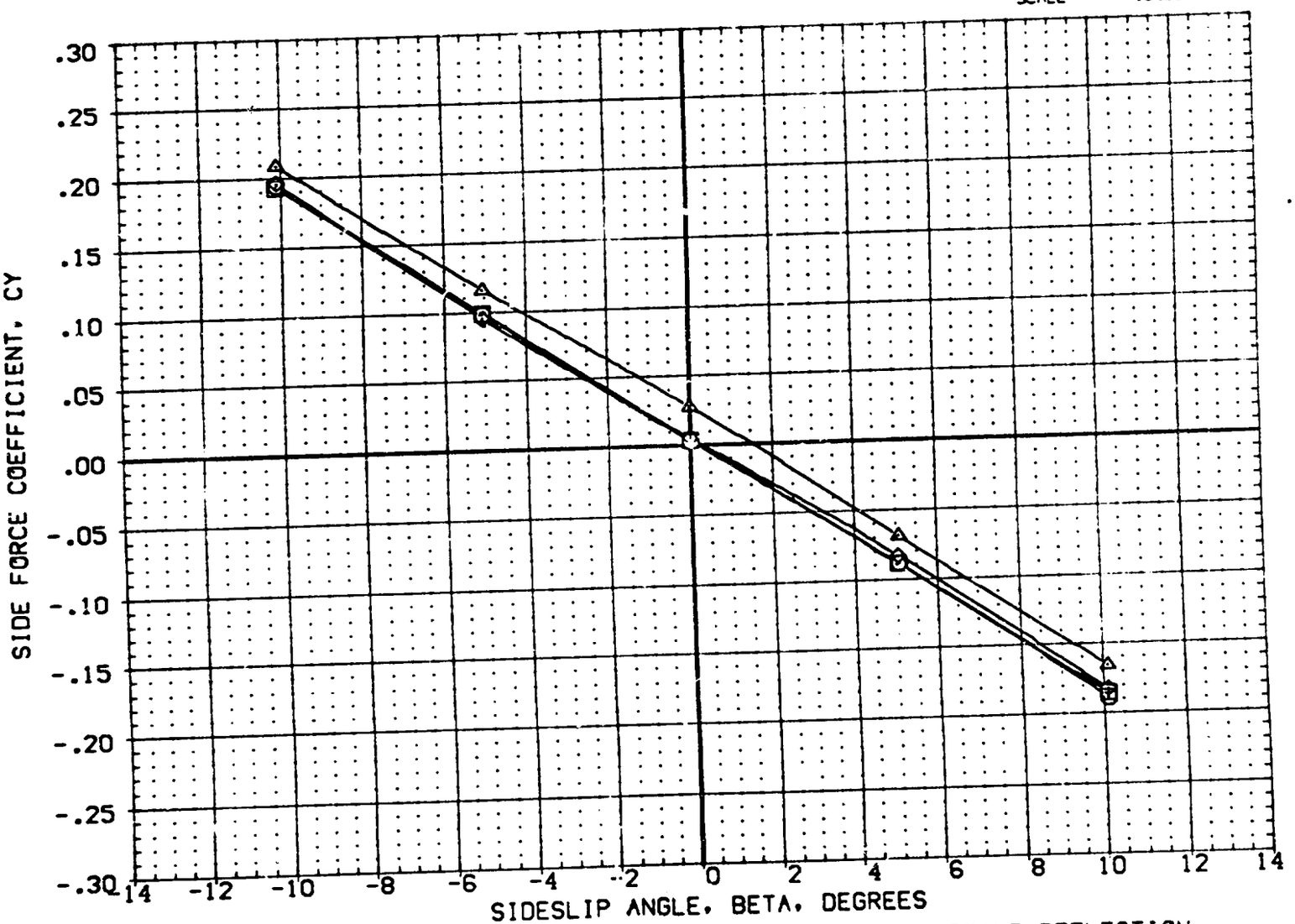


FIGURE 75 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

0A21 B17C7 M4F5 W107E23V7P6X9 (JDP023)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
O	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP023	.000	JDP024	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	25.000	JDP025	15.000	JDP026	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

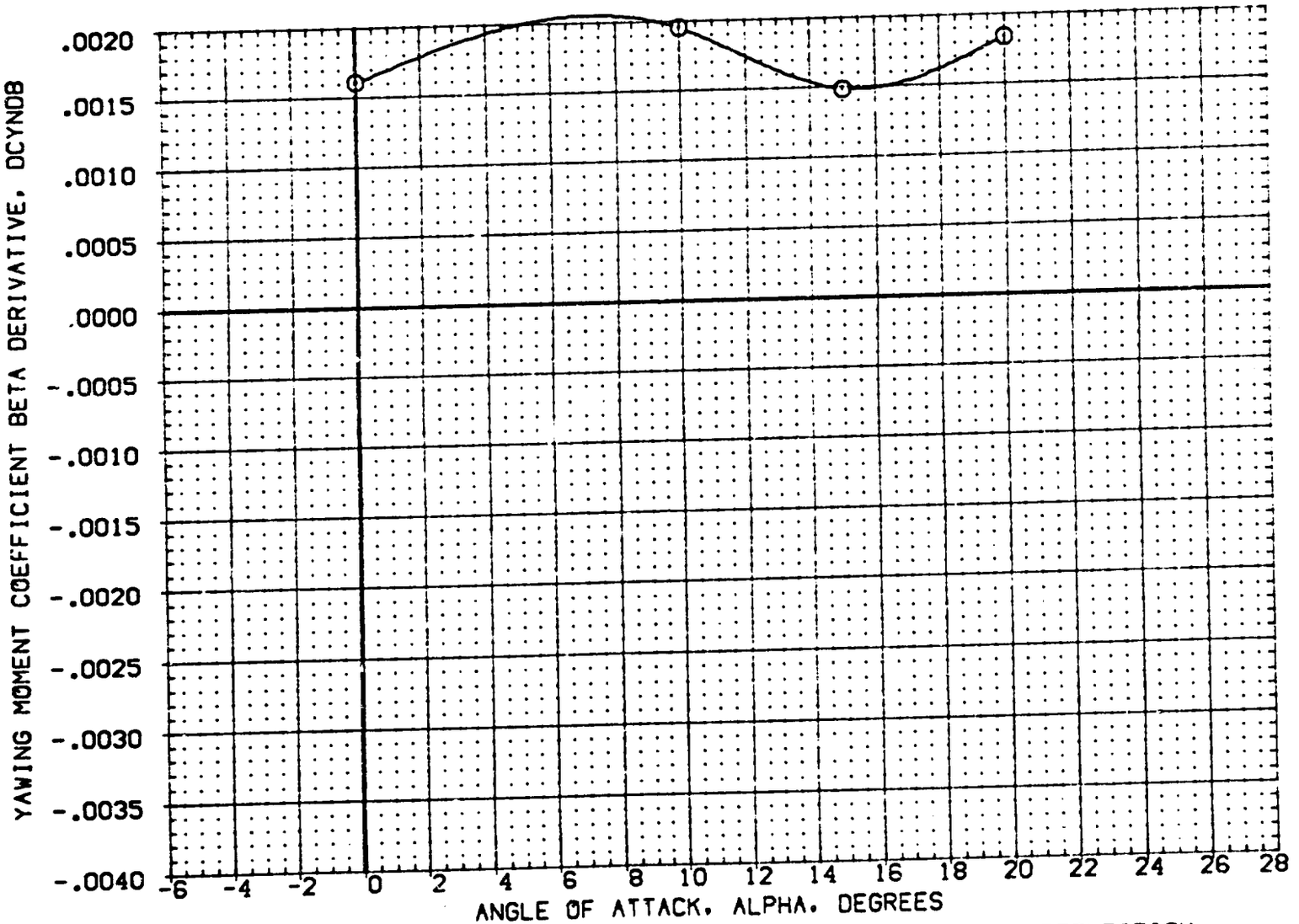


FIGURE 76 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

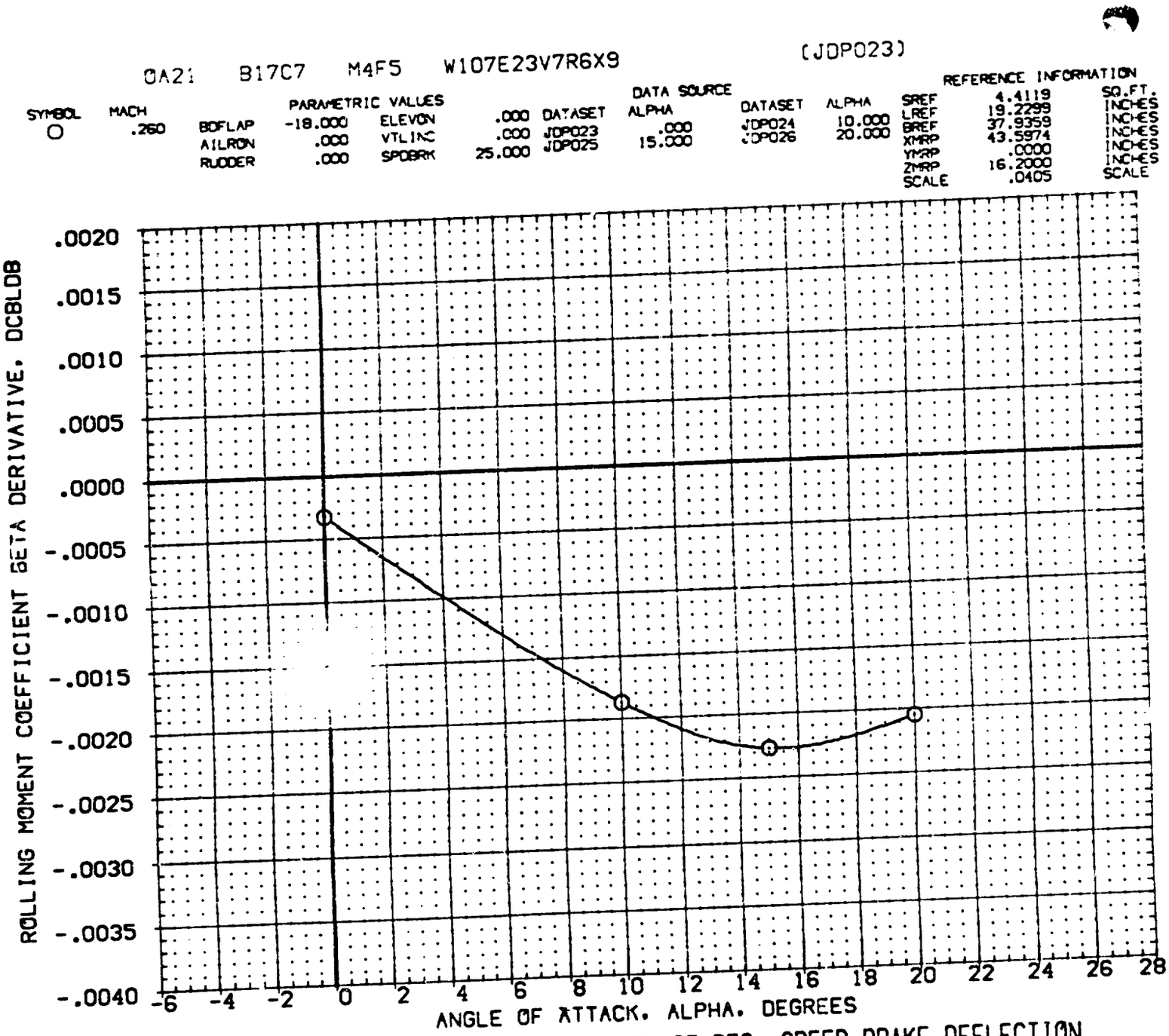


FIGURE 76 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP023)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
						DATASET	ALPHA	DATASET	ALPHA			
O	.260	BOFLAP	-18.000	ELEVON	.000	JDP023	.000	JDP024	10.000	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP025	15.000	JDP026	20.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	25.000					BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

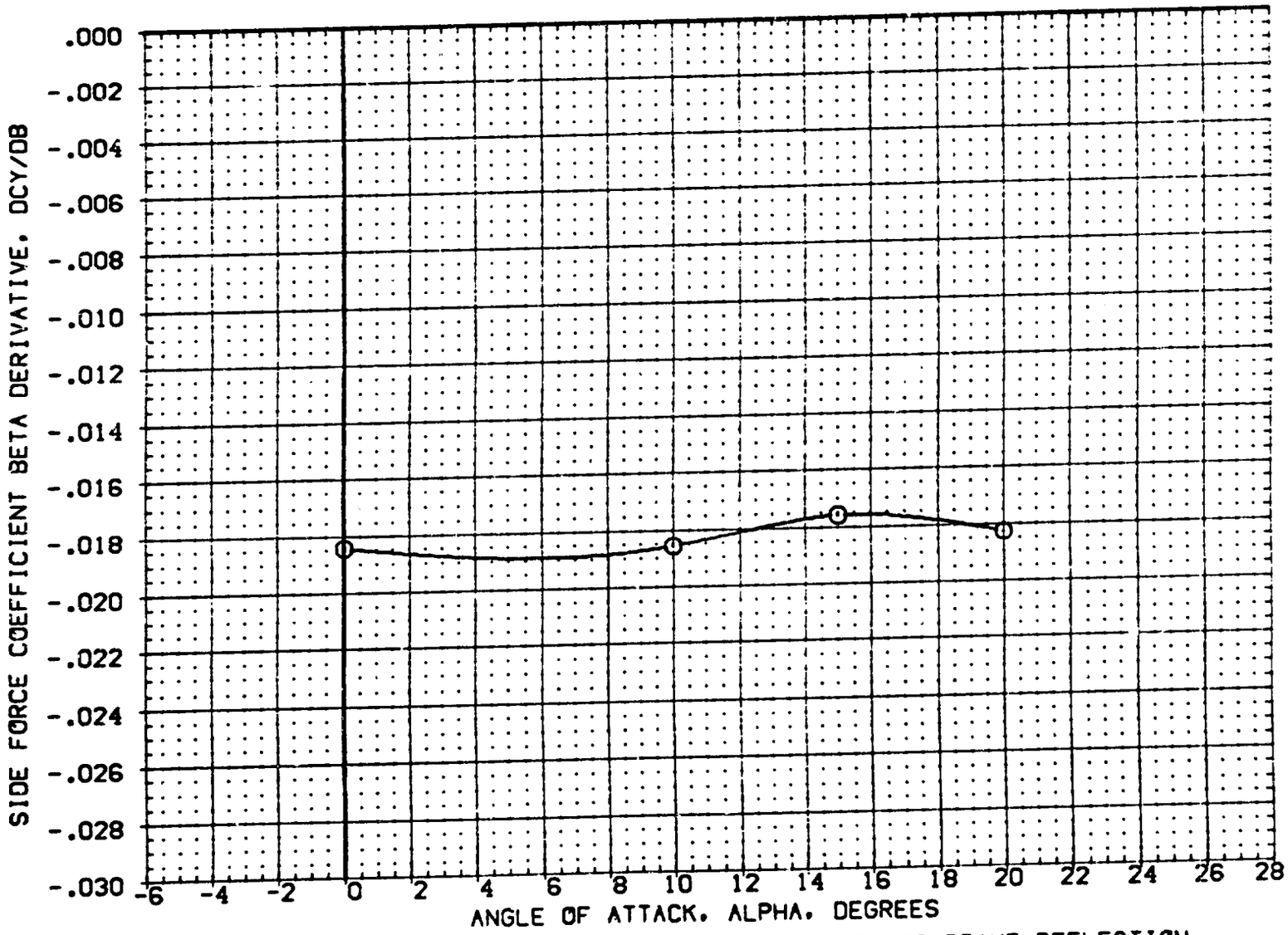


FIGURE 76 LATERAL DIRECTIONAL EFFECTS WITH 25 DEG. SPEED BRAKE DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP002)	□	CA21	B17C7	M4F5	W107E23V7R6X9
(ROP003)	□	CA21	B17C7	M4F5	W107E23V7R6X9
(ROP004)	◇	CA21	B17C7	M4F5	W107E23V7R6X9
(ROP005)	△	CA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

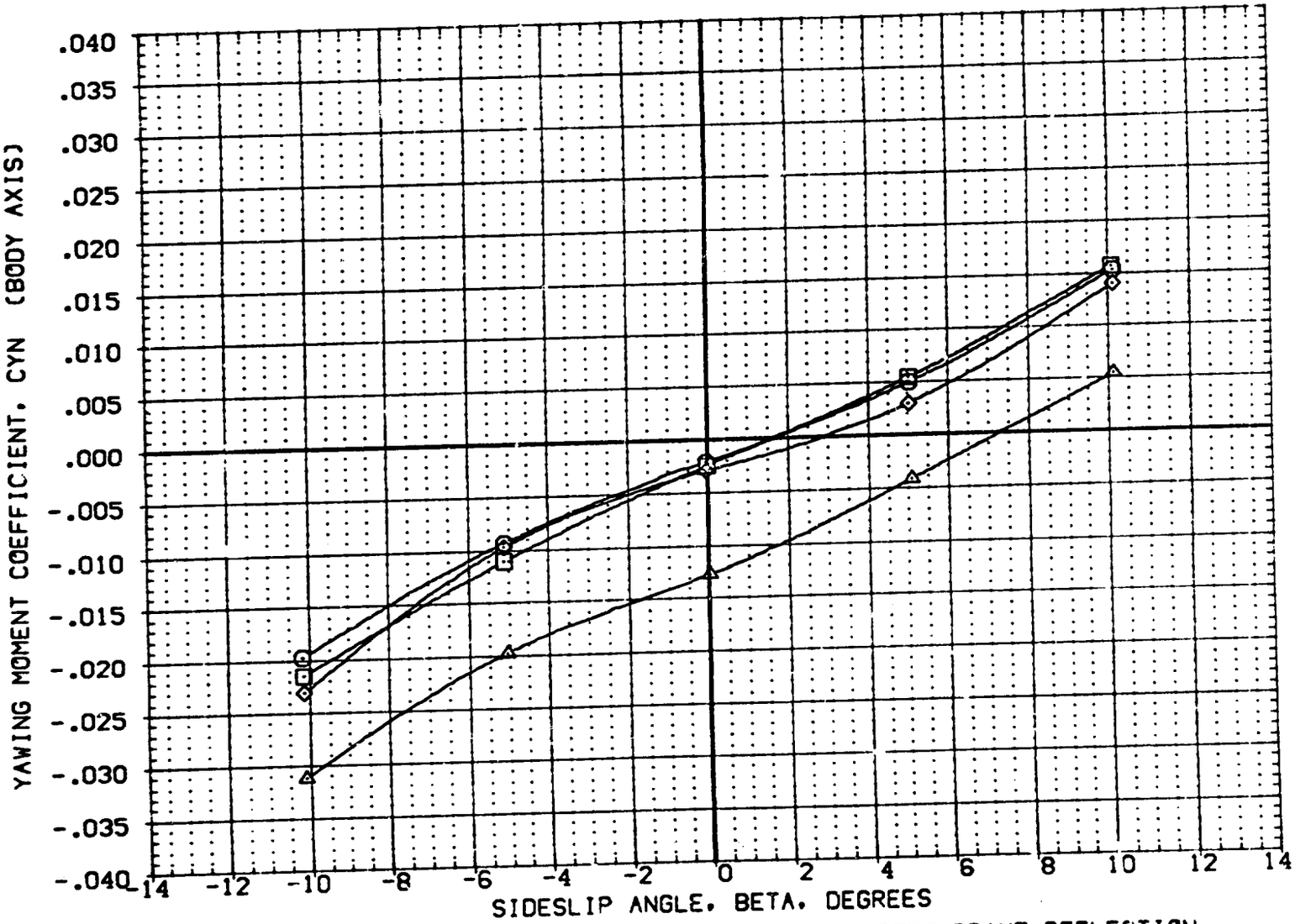


FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP002)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP003)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP004)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP005)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

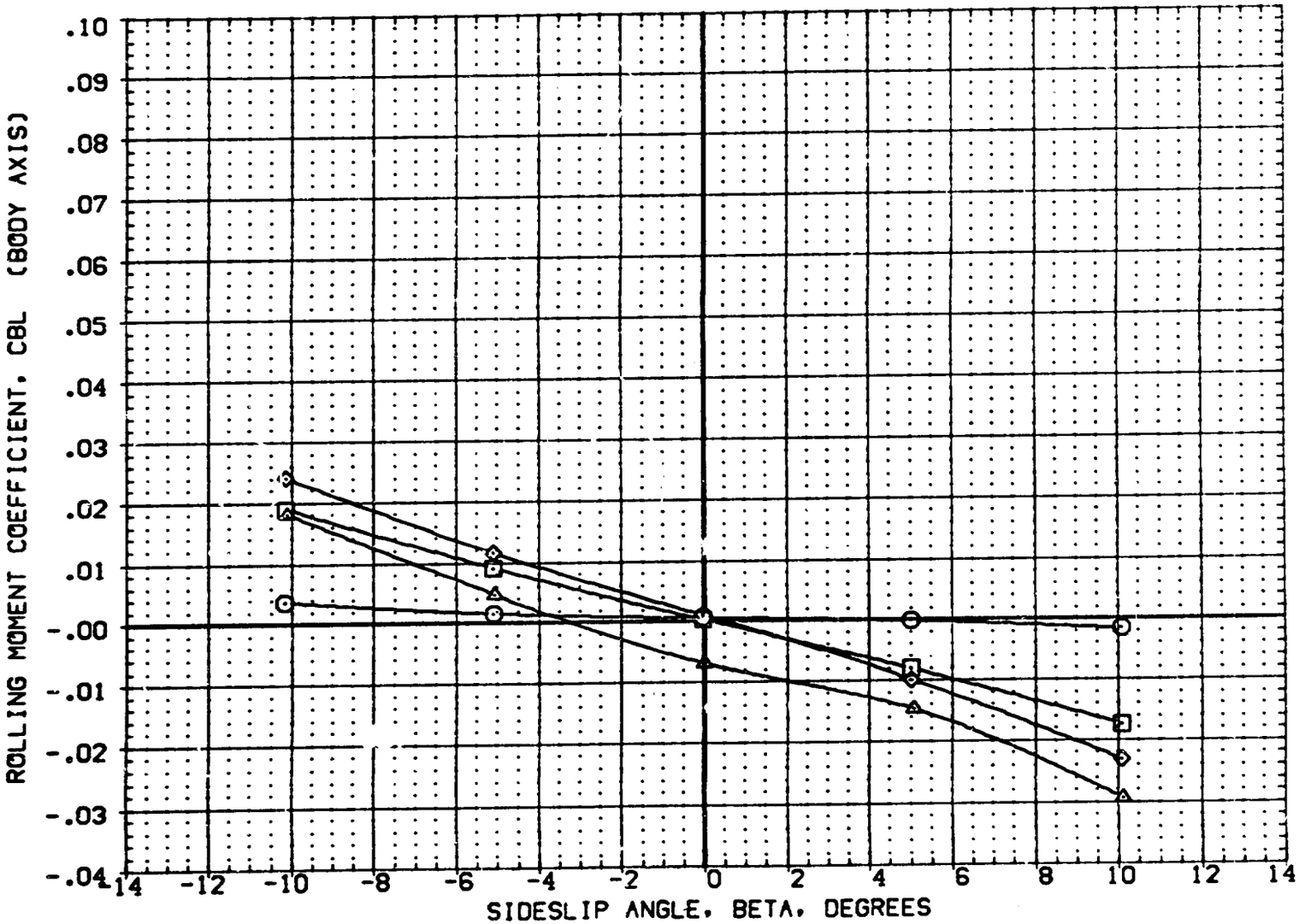


FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP002)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP003)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP004)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(RDP005)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

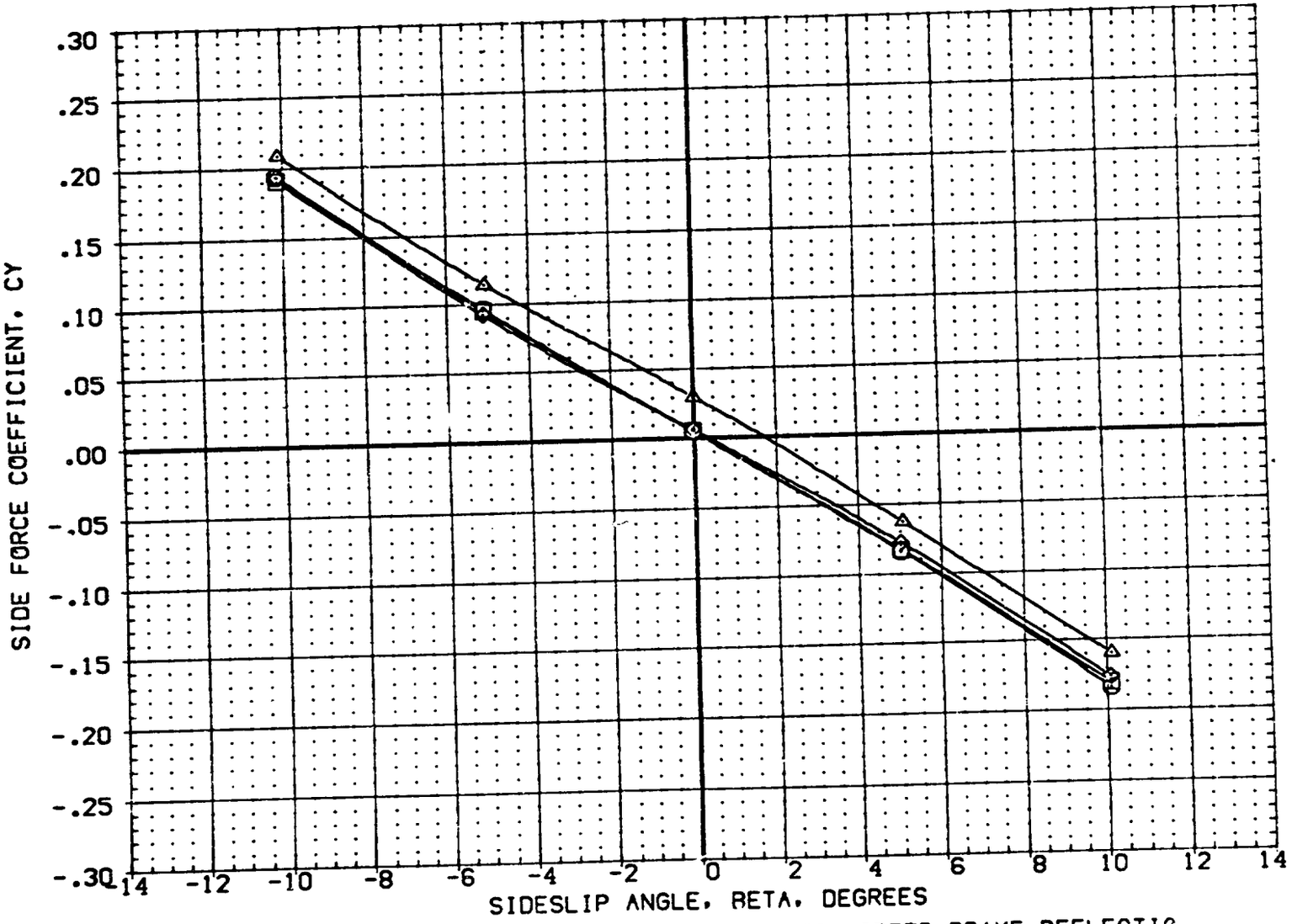


FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP002)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP002	.000	JDP003	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	55.000	JDP004	15.000	JDP005	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP002)

SYMBOL	MACH	PARAMETRIC VALUES					DATA SOURCE				REFERENCE INFORMATION		
							DATASET	ALPHA	DATASET	ALPHA			
○	.260	BOFLAP	-18.000	ELEVON	.000	DATASET	ALPHA		DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP002	.000		JDP003	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPDBRK	55.000	JDP004	15.000		JDP005	20.000	BREF	37.9359	INCHES
											XMRP	43.5974	INCHES
											YMRP	.0000	INCHES
											ZMRP	16.2000	INCHES
											SCALE	.0405	SCALE

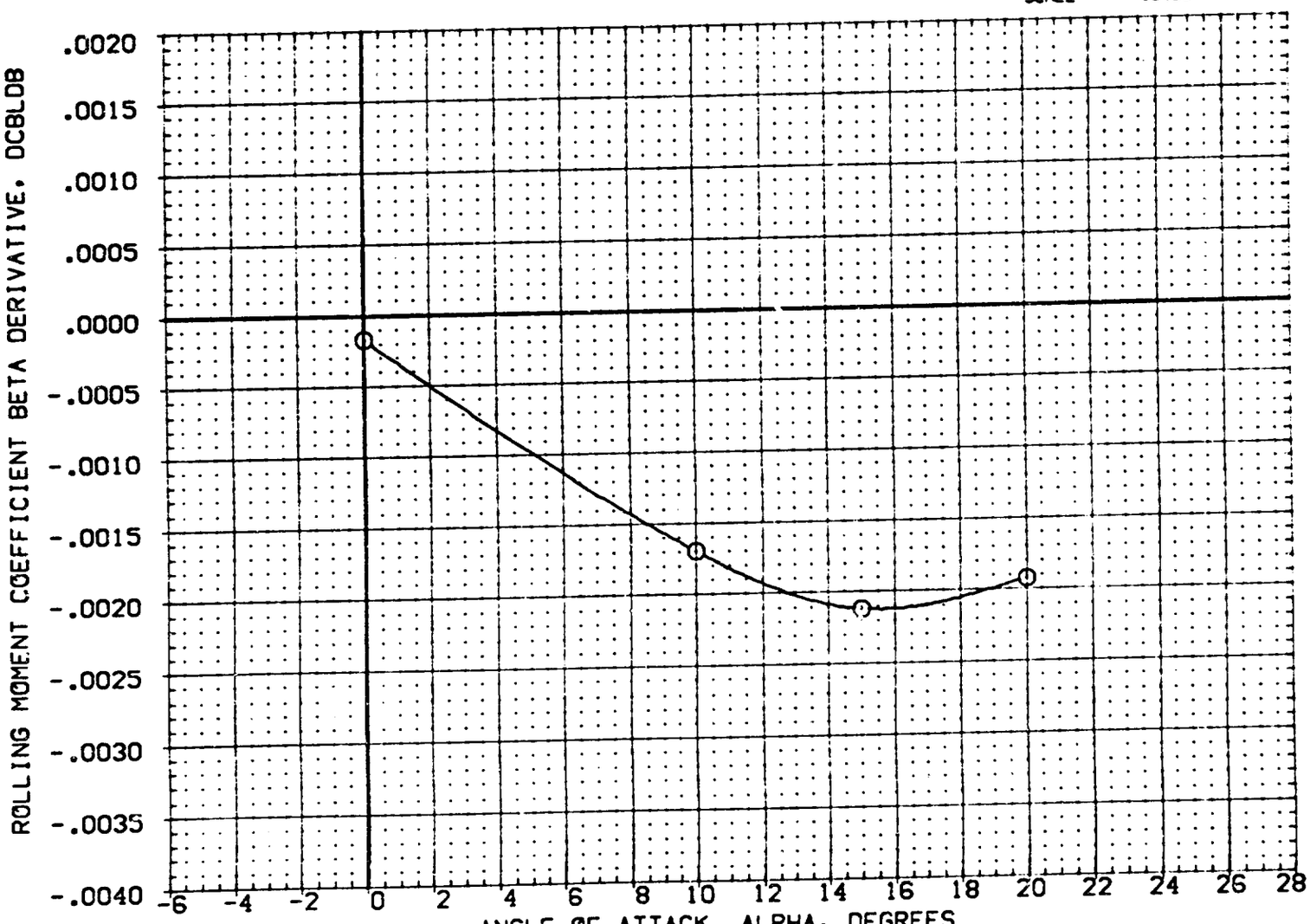


FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP002)

SYMBOL	MACH	PARAMETRIC VALUES					DATA SOURCE				REFERENCE INFORMATION		
○	.260	BOFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP002	.000	JDP003	10.000	LREF	19.2298	INCHES
		RUDDER	.000	SPDBRK	55.000	JDP004	15.000	JDP005	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

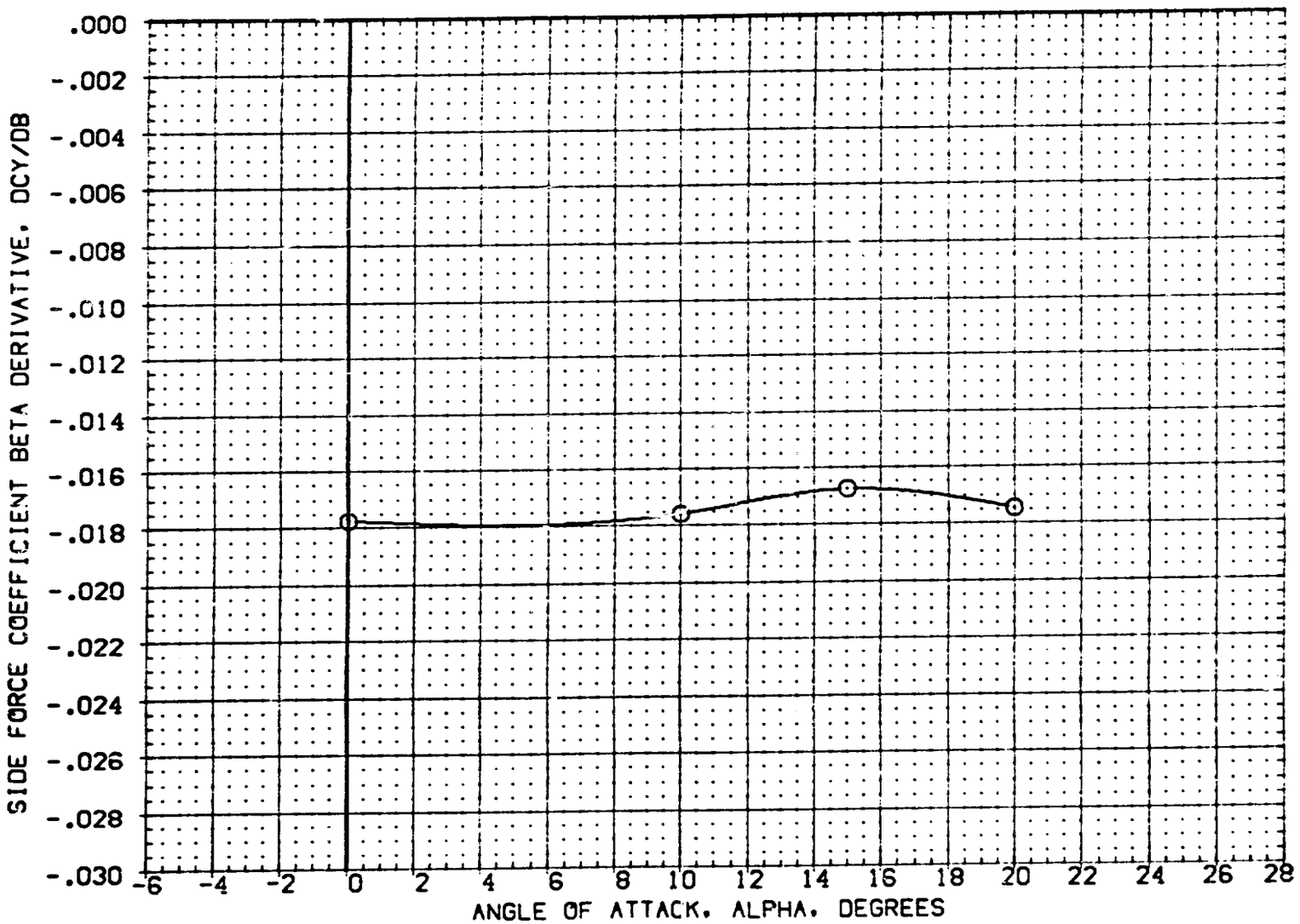


FIGURE 77 LATERAL DIRECTIONAL EFFECTS WITH 55 DEG. SPEED BRAKE DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RCP036)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(RCP037)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(RCP038)	⊠	0A21	B17C7	M4F5	W107E23V7R6X9
(RCP039)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	85.000
10.000	.000	.000	85.000
15.000	.000	.000	85.000
20.000	.000	.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

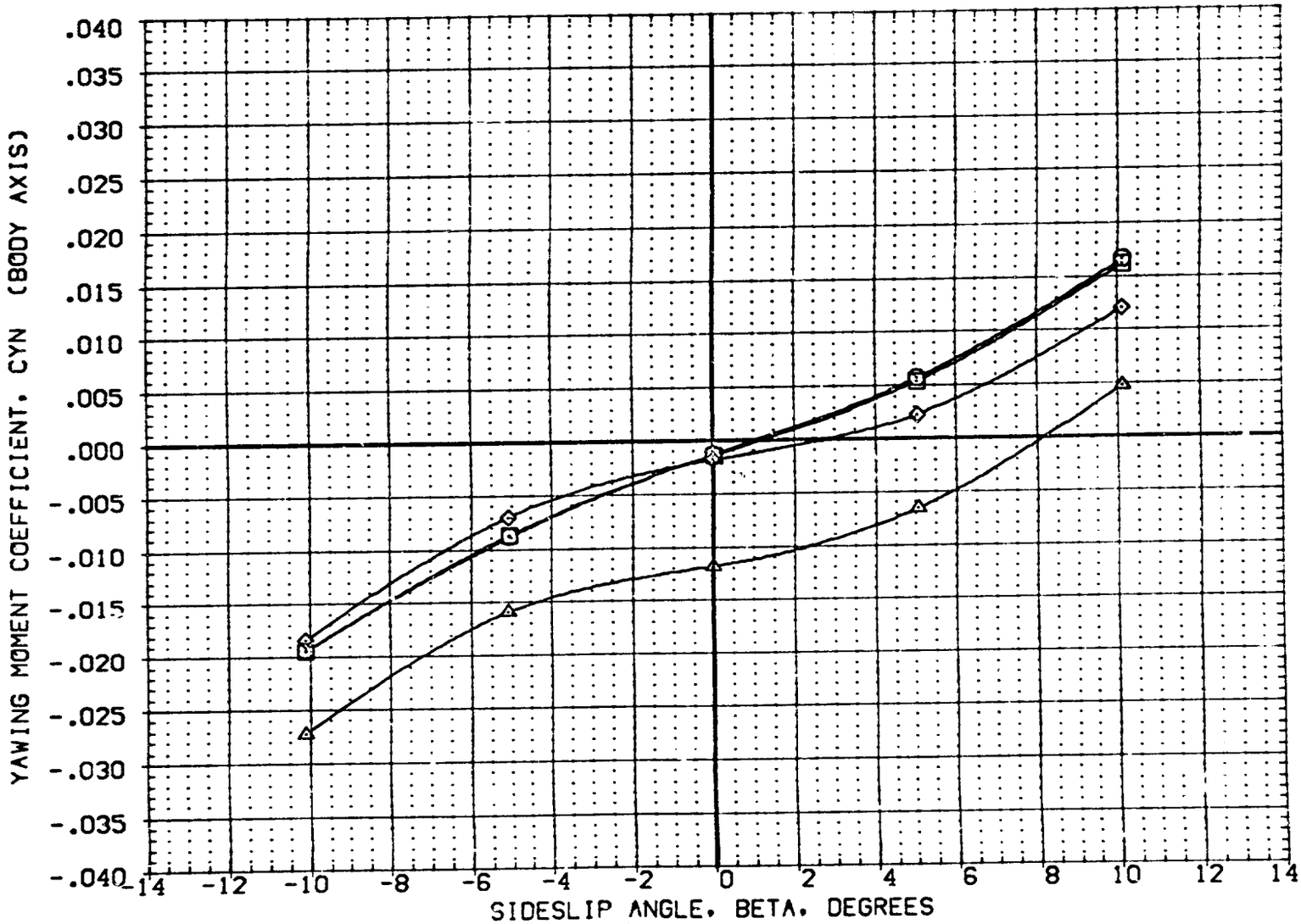


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROPC36)	○	CA21	B17C7	M4F5	W107E23V7R6X9
(ROPC37)	◇	CA21	B17C7	M4F5	W107E23V7R6X9
(ROPC38)	⊠	CA21	B17C7	M4F5	W107E23V7R6X9
(ROPC39)	△	CA21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	85.000
10.000	.000	.000	85.000
15.000	.000	.000	85.000
20.000	.000	.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.040S	SCALE

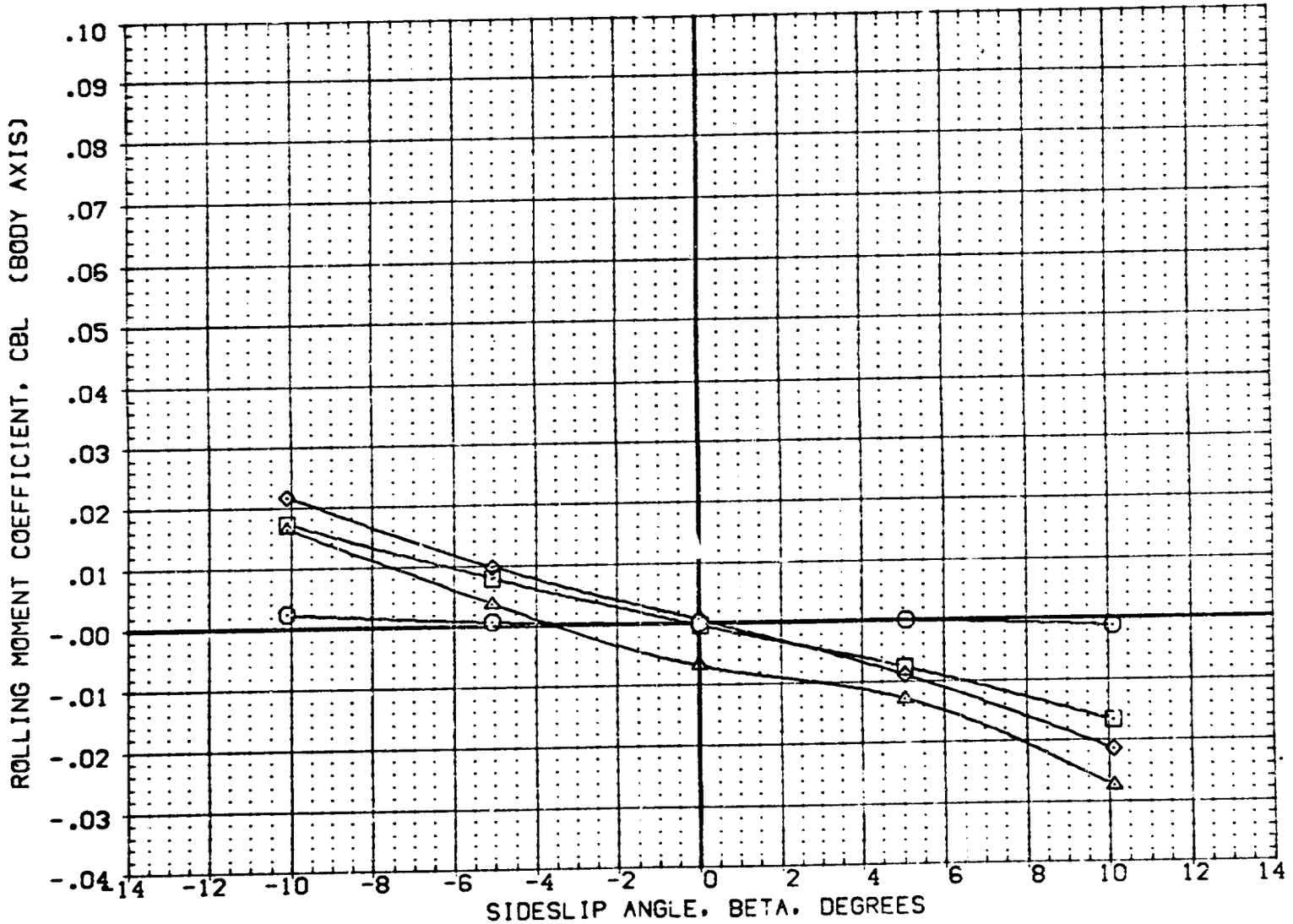


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP036)	□	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP037)	◇	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP038)	○	0A21	B17C7	M4F5	W107E23V7R6X9
(ROP039)	△	0A21	B17C7	M4F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPOBRK
.000	.000	.000	85.000
10.000	.000	.000	85.000
15.000	.000	.000	85.000
20.000	.000	.000	85.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

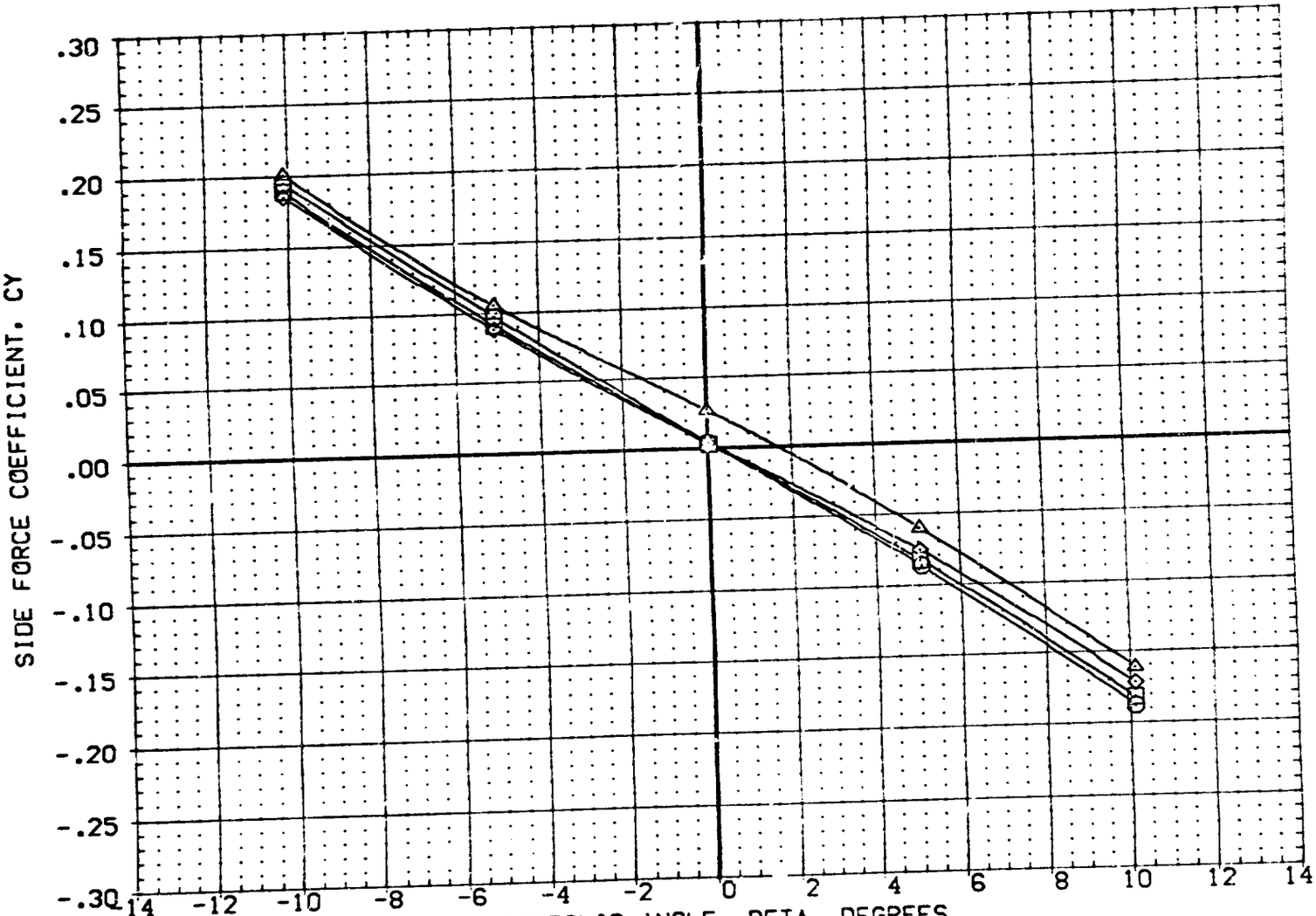


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

(A)MACH = .26

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP036)

SYMBOL	MACH	PARAMETRIC VALUES					DATA SOURCE				REFERENCE INFORMATION		
○	.260	BDFLAP	-18.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.4119	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP036	.000	JDP037	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPOBRK	85.000	JDP038	15.000	JDP039	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.0405	SCALE

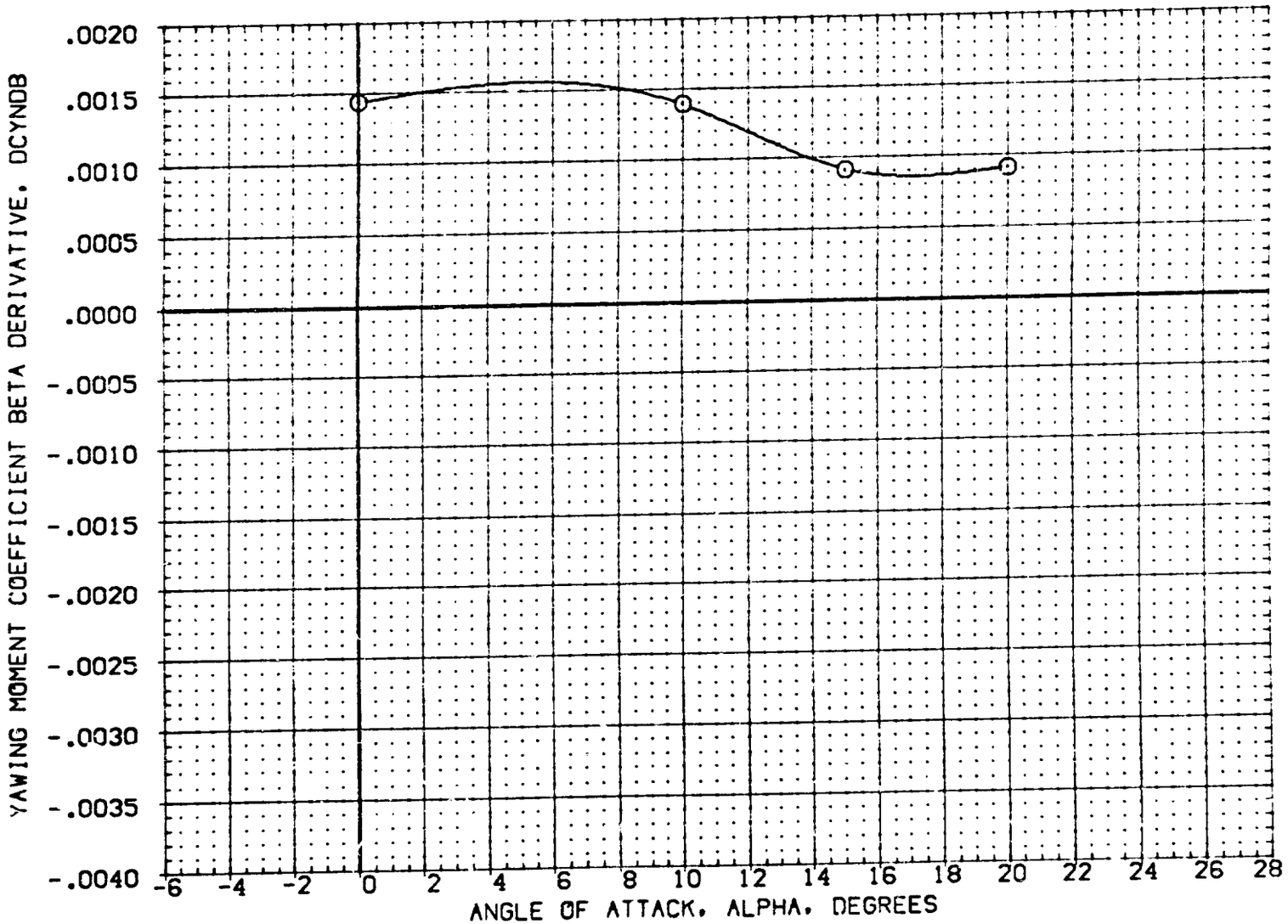


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

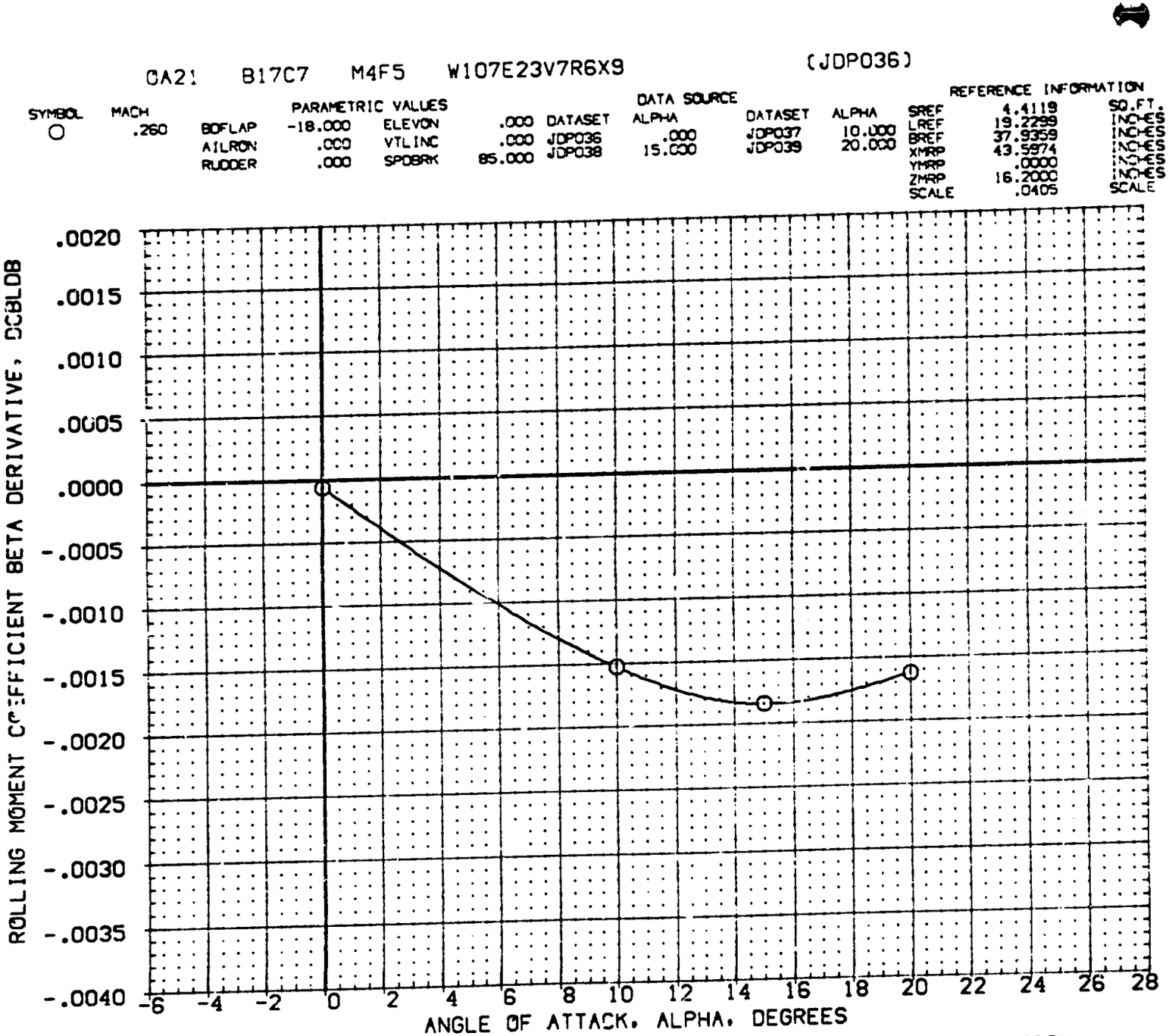


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

0A21 B17C7 M4F5 W107E23V7R6X9 (JDP036)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION		
○	.260	RDFLAP	-10.000	ELEVON	.000	DATASET	ALPHA	DATASET	ALPHA	SREF	4.41:9	SQ.FT.
		AILRON	.000	VTLINC	.000	JDP036	.000	JDP037	10.000	LREF	19.2299	INCHES
		RUDDER	.000	SPOBRK	85.000	JDP038	15.000	JDP039	20.000	BREF	37.9359	INCHES
										XMRP	43.5974	INCHES
										YMRP	.0000	INCHES
										ZMRP	16.2000	INCHES
										SCALE	.04C5	SCALE

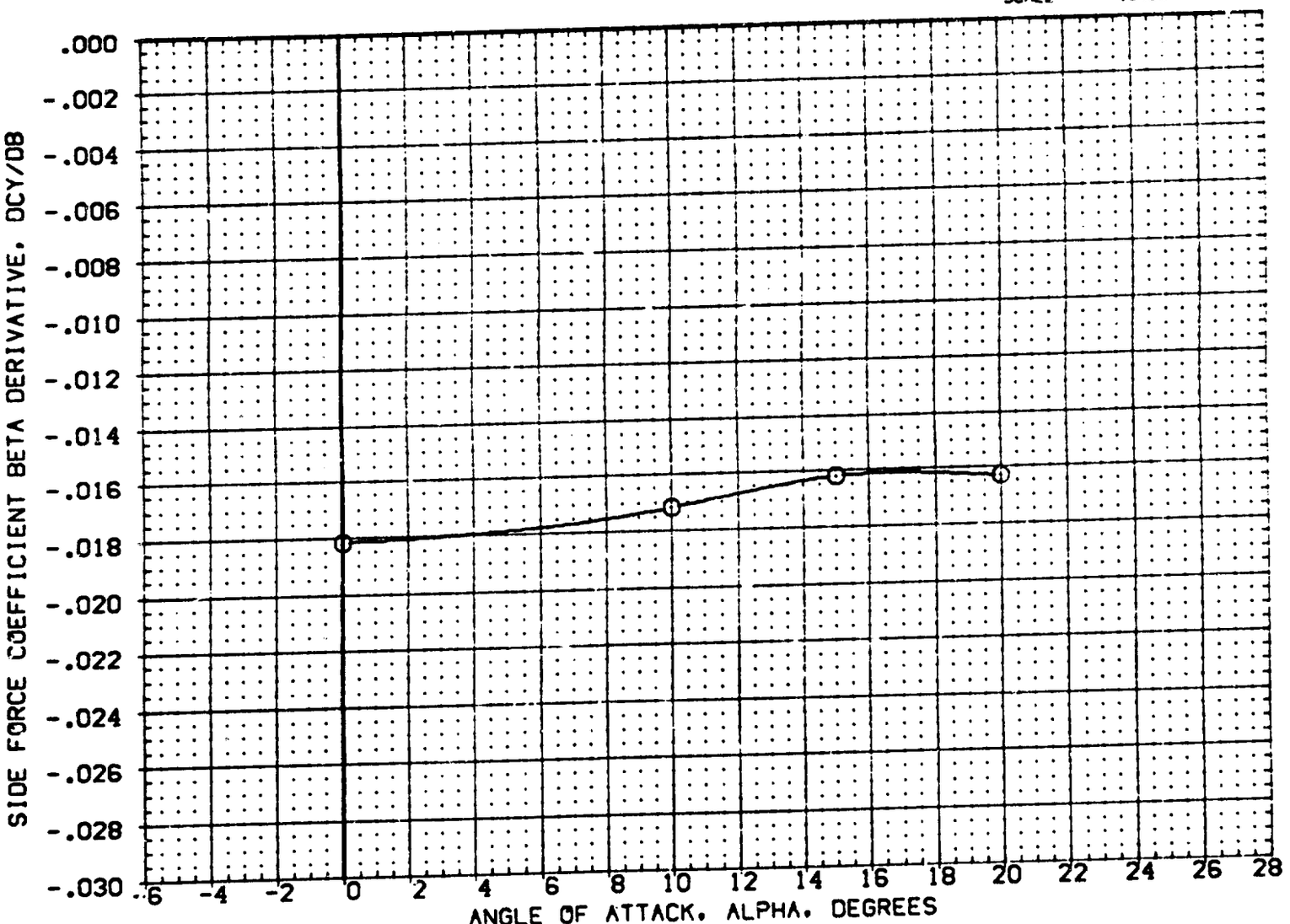


FIGURE 78 LATERAL DIRECTIONAL EFFECTS WITH 85 DEG. SPEED BRAKE DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP078)	○	0A21	B1?C7	F5	W107E23V7R6X9
(ROP079)	□	0A21	B1?C7	F5	W107E23V7R6X9
(ROP080)	◇	0A21	B1?C7	F5	W107E23V7R6X9
(ROP081)	△	0A21	B1?C7	F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

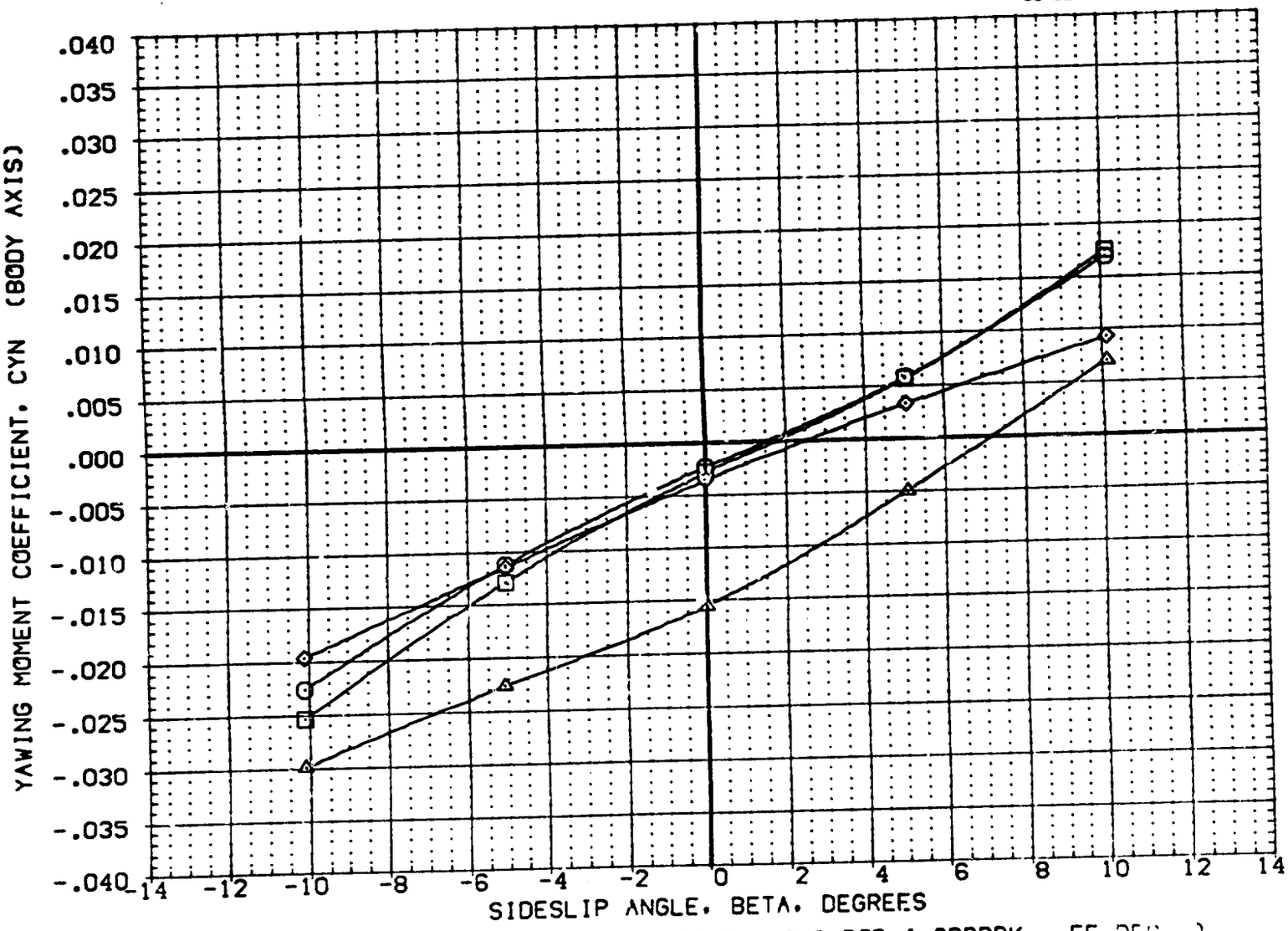


FIGURE 79 LATERAL DIRECTIONAL EFFECTS WITHOUT OMS POD (SPDBRK = 55 DEG.)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP078)	○	0A21	B17C7	F5	W107E23V7R6X9
(ROP079)	□	0A21	B17C7	F5	W107E23V7R6X9
(ROP080)	◇	0A21	B17C7	F5	W107E23V7R6X9
(ROP081)	△	0A21	B17C7	F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION

SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

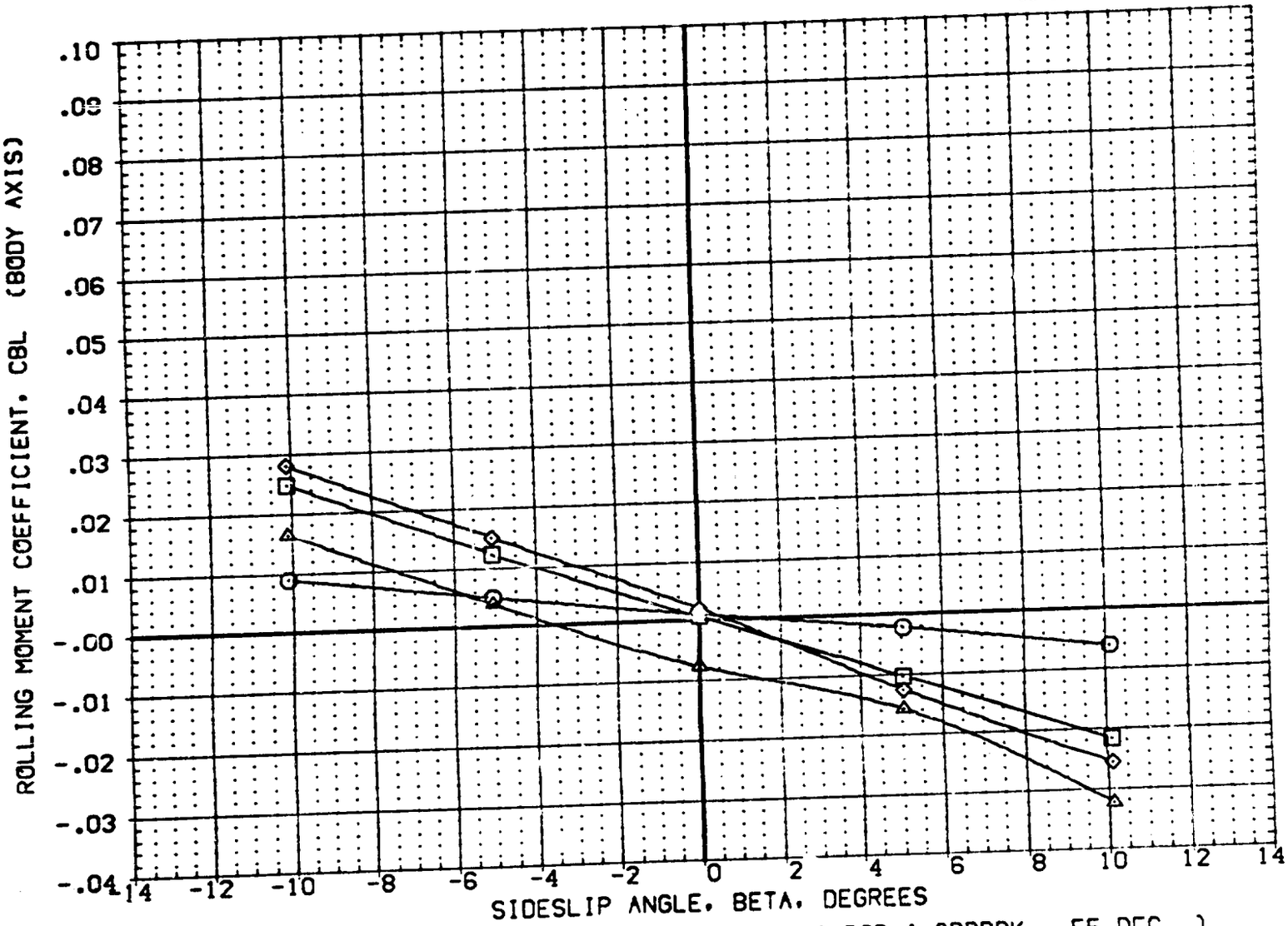


FIGURE 79 LATERAL DIRECTIONAL EFFECTS WITHOUT OMS POD (SPDBRK = 55 DEG.)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP078)	□	OA21	B17C7	F5	W107E23V7R6X9
(ROP079)	◇	OA21	B17C7	F5	W107E23V7R6X9
(ROP080)	⊠	OA21	B17C7	F5	W107E23V7R6X9
(ROP081)	△	OA21	B17C7	F5	W107E23V7R6X9

ALPHA	AILRON	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

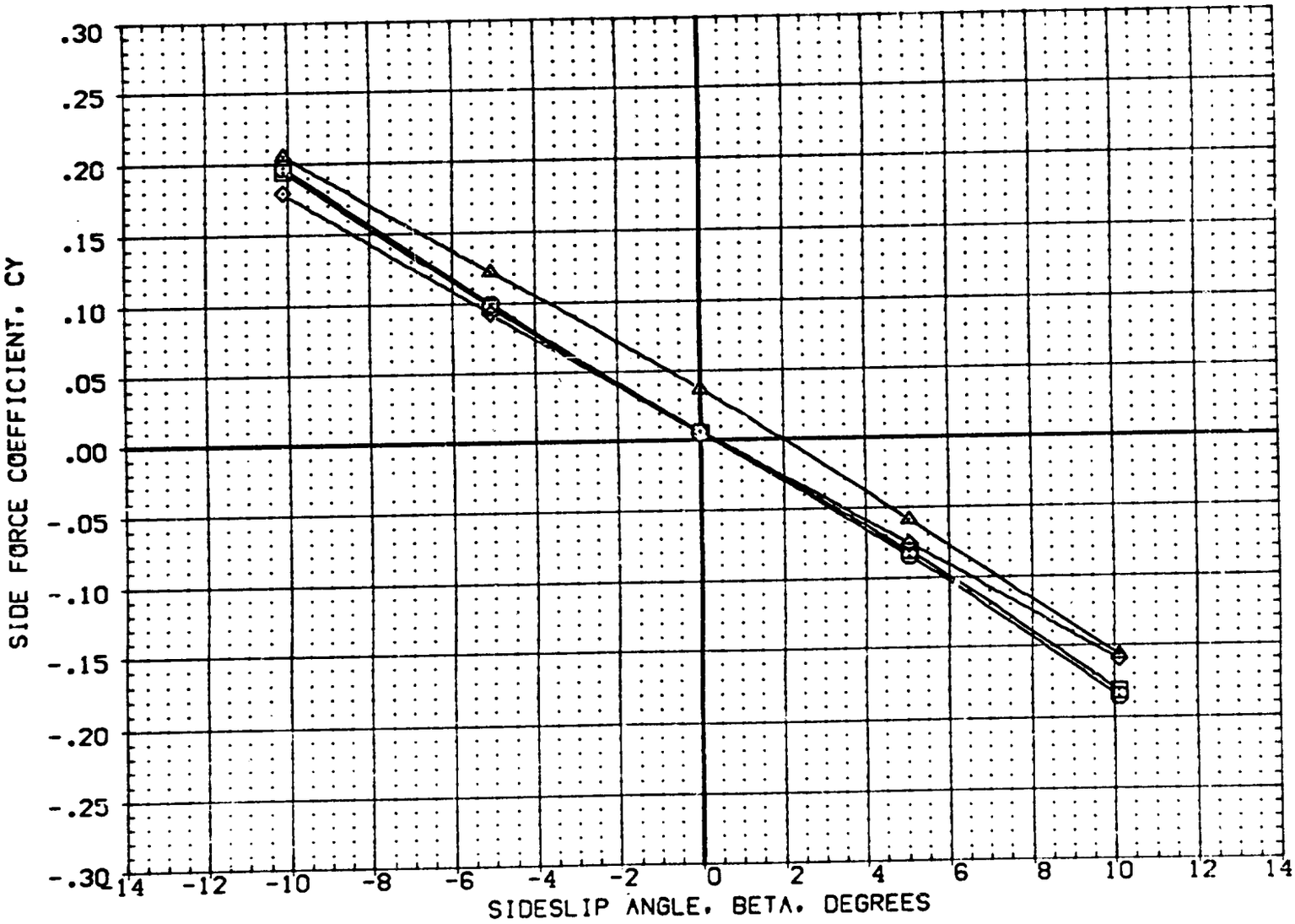


FIGURE 79 LATERAL DIRECTIONAL EFFECTS WITHOUT OMS POD (SPDBRK = 55 DEG.)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(ROP073)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(ROP074)	□	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(ROP075)	⊠	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(ROP076)	△	0A21	B17C7 H2M4F5	W107E23V7R6X9	

ALPHA	CANARD	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

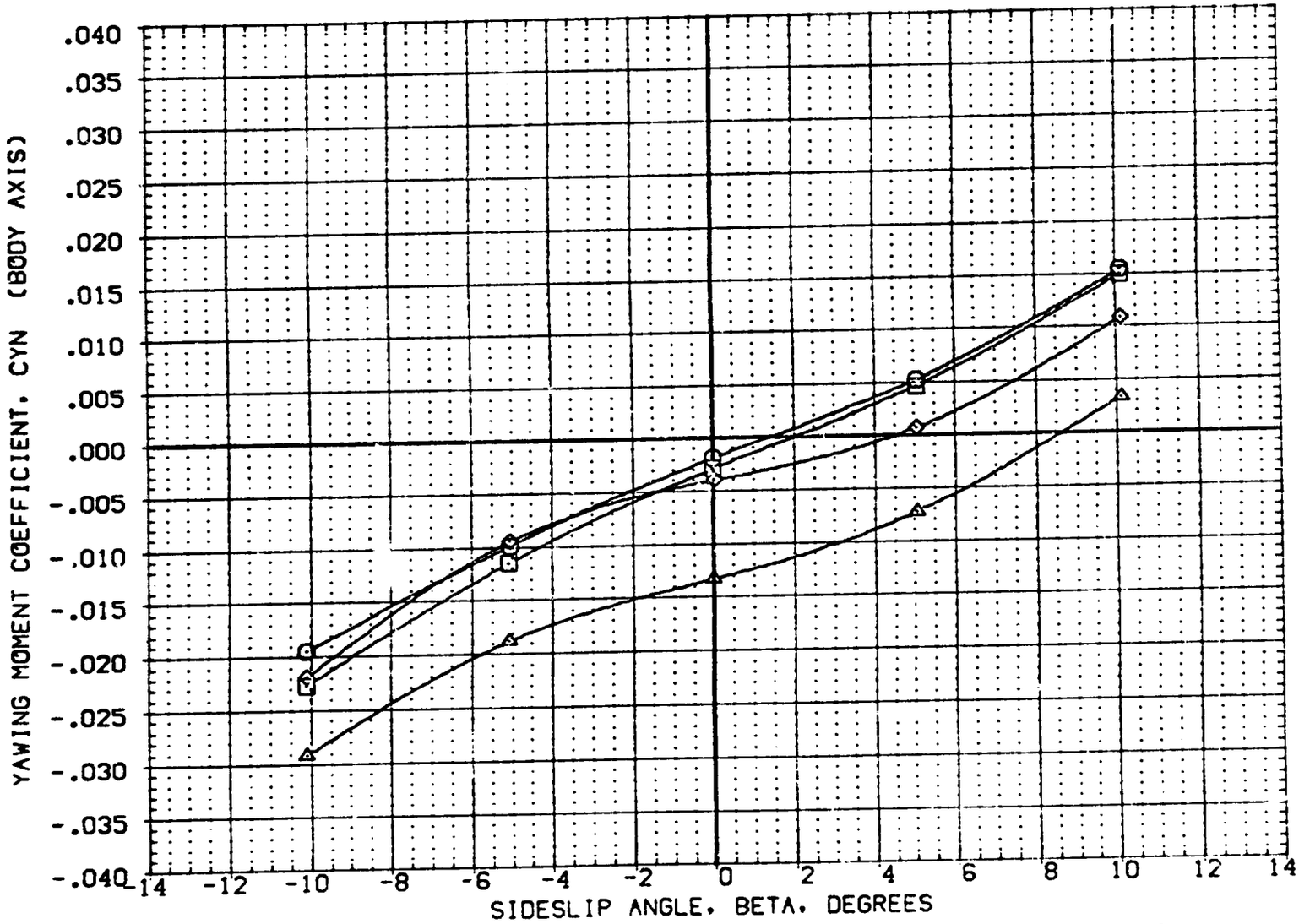


FIGURE 80 LATERAL DIRECTIONAL EFFECTS OF H2 CANARD (SPDBRK = 55 DEG.)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION				ALPHA	CANARD	RUDDER	SPOBRK
(ROP073)	○	OA21	B17C7	H2M4F5	W107E23V7R(X9	.000	.000	.000	55.000
(ROP074)	□	OA21	B17C7	H2M4F5	W107E23V7R(X9	10.000	.000	.000	55.000
(ROP075)	⊠	OA21	B17C7	H2M4F5	W107E23V7R(X9	15.000	.000	.000	55.000
(ROP076)	△	OA21	B17C7	H2M4F5	W107E23V7R6 (9	20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

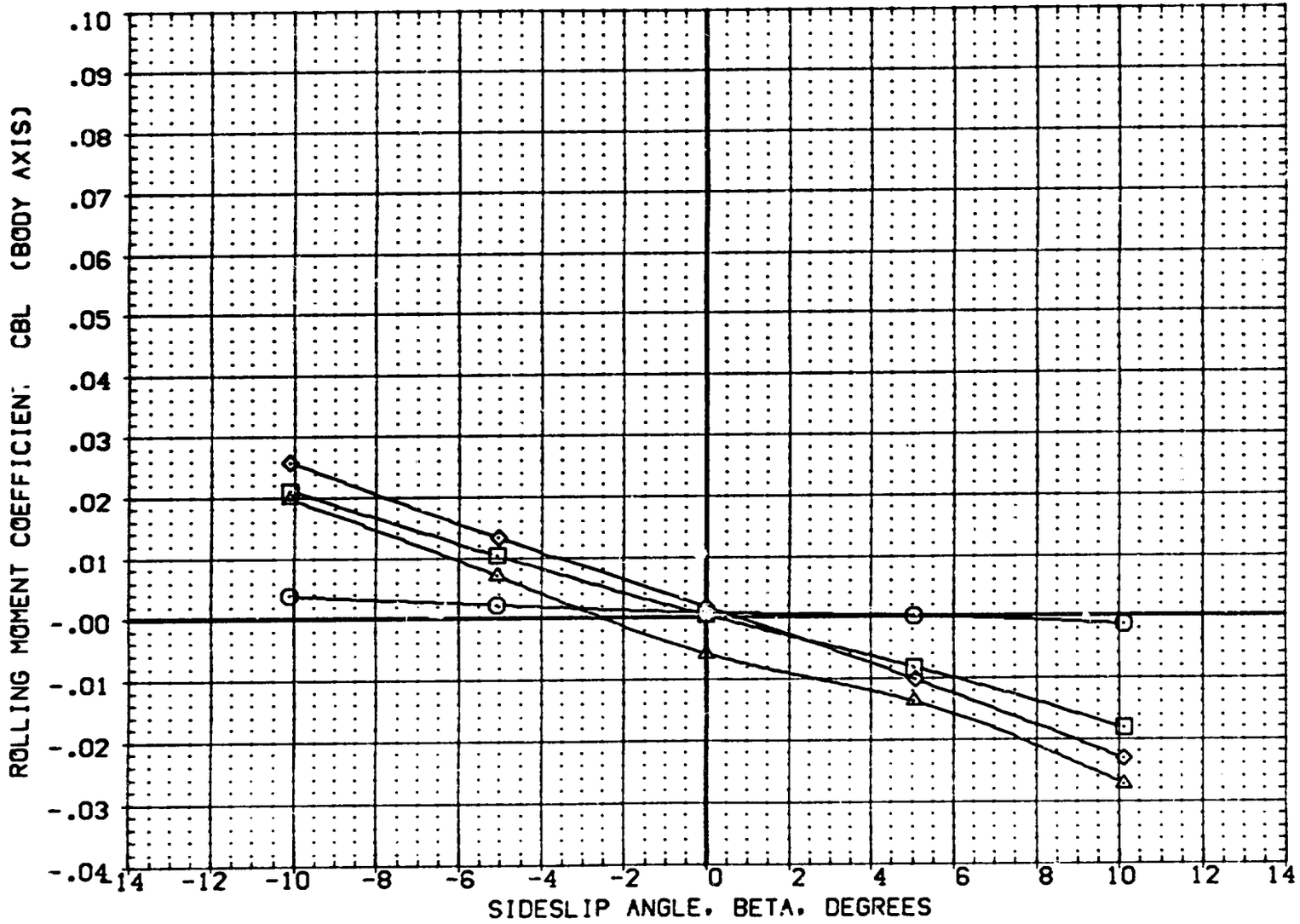


FIGURE 80 LATERAL DIRECTIONAL EFFECTS OF H2 CANARD (SPOBRK = 55 DEG.)

(A)MACH = .26

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(RDP073)	○	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(RDP074)	◇	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(RDP075)	⊠	0A21	B17C7 H2M4F5	W107E23V7R6X9	
(RDP076)	△	0A21	B17C7 H2M4F5	W107E23V7R6X9	

ALPHA	CANARD	RUDDER	SPDBRK
.000	.000	.000	55.000
10.000	.000	.000	55.000
15.000	.000	.000	55.000
20.000	.000	.000	55.000

REFERENCE INFORMATION		
SREF	4.4119	SQ.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	16.2000	INCHES
SCALE	.0405	SCALE

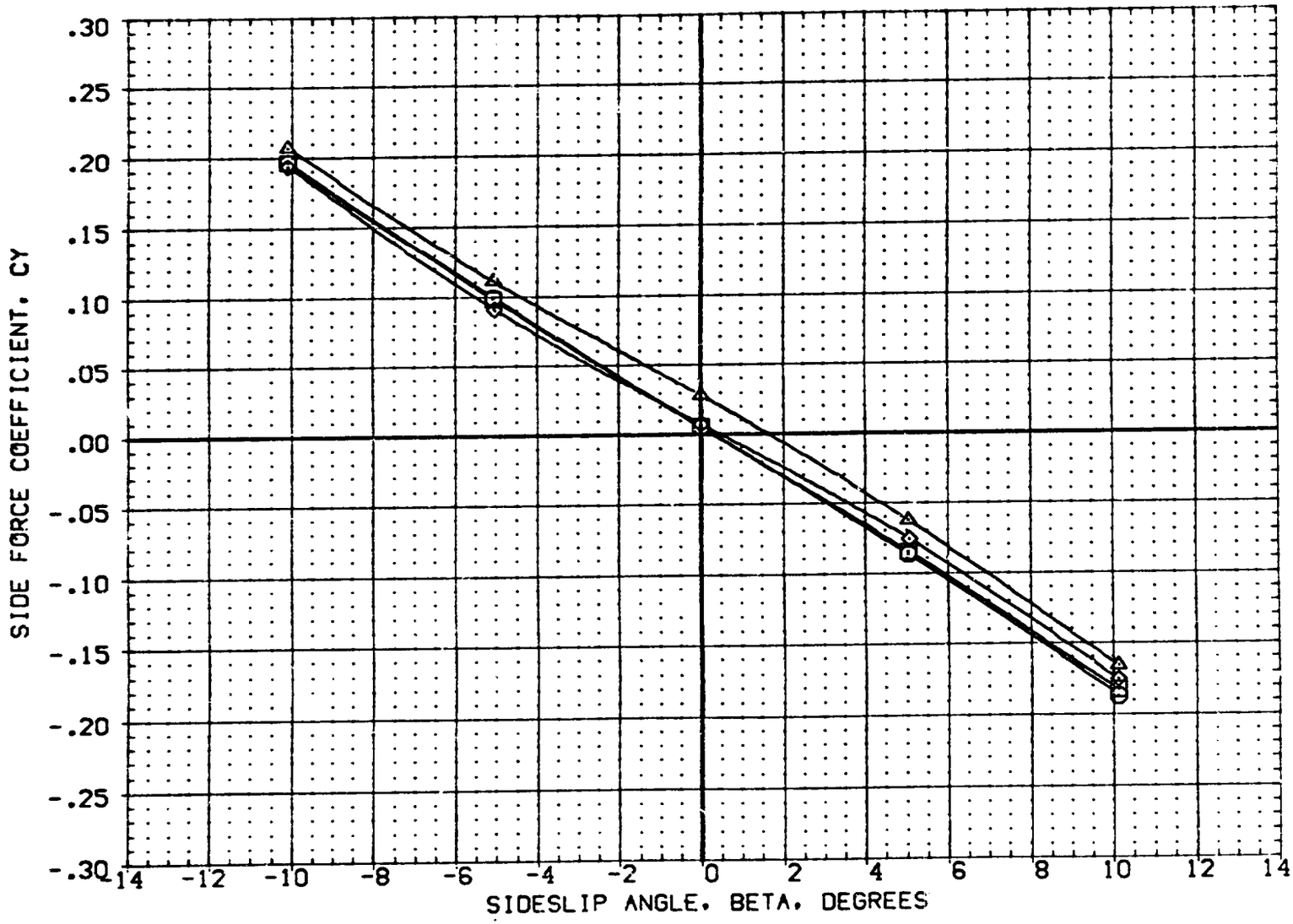


FIGURE 80 LATERAL DIRECTIONAL EFFECTS OF H2 CANARD (SPDBRK = 55 DEG.)

(A)MACH = .26

APPENDIX

TABULATED SOURCE DATA

Plotted data listings are available on request from Data Management Services.

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP001) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPOBRK = 55.000

RUN NO. 1/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.230	-.28500	.05690	.07210	-.28860	.03765	-.00180	.00060	.00700	.74100	.04987
.260	-2.140	-.18880	.05130	.07060	-.19050	.04422	-.00180	.00060	.00600	.78600	.04868
.260	-.080	-.09310	.04680	.07050	-.09310	.04679	-.00190	.00050	.00600	.92800	.04731
.260	1.970	.00310	.04530	.06960	.00470	.04521	-.00180	.00060	.00600	-4.79300	.04676
.260	4.150	.09990	.04570	.06910	.10290	.03837	-.00170	.00060	.00500	.40200	.04605
.260	6.230	.19450	.05030	.06890	.19890	.02888	-.00170	.00050	.00400	.52200	.04473
.260	8.330	.29260	.05930	.06920	.29810	.01630	-.00180	.00040	.00400	.56400	.04372
.260	10.440	.39240	.07300	.06980	.39910	.00074	-.00210	.00020	.00600	.58500	.04359
.260	12.560	.49720	.09250	.07010	.50540	-.01783	-.00240	.00010	.00600	.59800	.04463
.260	14.680	.60450	.12030	.06810	.61530	-.03686	-.00270	.00070	.00600	.60900	.04563
.260	16.800	.72340	.15960	.06090	.73870	-.05631	-.00310	.00090	.00700	.61900	.04701
.260	18.910	.82460	.23030	.04980	.85470	-.04943	-.01240	-.00610	.02700	.62800	.05008
.260	21.050	.93140	.29360	.04250	.97470	-.06748	-.01260	-.00670	.02700	.63300	.05282
.260	23.160	1.03210	.37110	.03540	1.09460	-.06485	-.00830	-.00480	.02200	.63700	.05706
.260	25.280	1.11010	.44540	.03730	1.19400	-.07144	-.00520	-.00300	.01400	.63800	.06093
	GRADIENT	.04599	-.00155	-.00033	.04678	.00011	.00001	-.00000	-.00019	-.29246	-.00046

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP002) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPOBRK = 55.000

RUN NO. 2/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.180	-.06790	.03390	.05650	-.06790	.03391	-.01975	.00370	.19400	.95600	.04959
.260	-5.110	-.08130	.04390	.06630	-.08130	.04394	-.00930	.00160	.09600	.94900	.04768
.260	-.040	-.09090	.04720	.07190	-.09090	.04717	-.00210	.00060	.00500	.94000	.04723
.260	5.010	-.08570	.04180	.06580	-.08570	.04177	.00500	-.00020	-.08400	.93200	.04971
.260	10.100	-.07150	.02970	.05510	-.07160	.02967	.01530	-.00170	-.18400	.93300	.05232
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP003) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 3/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.160	.41880	.06400	.05060	.42340	-.01306	-.02150	.01900	.19100	.60500	.04953
.260	-5.100	.40420	.07180	.06450	.41060	-.00266	-.01100	.00910	.09500	.59200	.04345
.260	-.030	.39590	.07460	.07060	.40290	.00158	-.00250	.00030	.00500	.58500	.04287
.260	5.020	.40480	.06940	.06100	.41070	-.00514	.00550	-.00810	-.08300	.59500	.04505
.260	10.080	.42270	.06010	.04660	.42660	-.01765	.01570	-.01740	-.18000	.60900	.05277
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP004) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 4/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.150	.69040	.13900	.04130	.70220	-.05383	.02310	.02410	.19400	.62800	.04554
.260	-5.110	.67090	.14170	.06050	.68420	-.04581	-.00970	.01160	.09200	.61700	.04307
.260	-.040	.66710	.14070	.06460	.68020	-.04569	-.00300	.00110	.00600	.61400	.04549
.260	5.020	.67610	.13770	.05690	.68810	-.05110	.00300	-.00990	-.07800	.61900	.04686
.260	10.10[illegible]	.70530	.13840	.03540	.71640	-.05847	.01400	-.02320	-.17700	.63100	.04951
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP005) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 5/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.93510	.30510	.01440	.98230	-.05085	-.03120	.01810	.20900	.64400	.05218
.260	-5.060	.91900	.29900	.03780	.96510	-.05086	-.01970	.00470	.11400	.63500	.04897
.260	.010	.93290	.29660	.04320	.97710	-.05848	-.01270	-.00700	.03000	.63300	.05146
.260	5.070	.94980	.28660	.03980	.98930	-.07424	-.00420	-.01480	-.06300	.63400	.05174
.260	10.130	.98350	.28030	.01830	1.02130	-.08507	.00550	-.02950	-.16000	.64300	.05534
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP006) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 6/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.200	-.25150	.05570	.05360	-.25490	.03717	-.00130	.00060	.00400	.72700	.04340
.260	-2.100	-.15450	.04930	.05200	-.15620	.04360	-.00150	.00060	.00400	.77200	.04236
.260	-.010	-.05920	.04490	.05120	-.05920	.04497	-.00150	.00050	.00300	.96700	.04226
.260	2.080	.03760	.04430	.05040	.03920	.04294	-.00170	.00060	.00400	.17600	.04177
.260	4.220	.13580	.04650	.04980	.13890	.03646	-.00170	.00060	.00300	.51700	.04118
.260	6.290	.23230	.05300	.04970	.23670	.02722	-.00190	.00040	.00400	.57200	.03966
.260	8.370	.32880	.06310	.05010	.33450	.01460	-.00210	.00020	.00400	.59400	.03906
.260	10.490	.42890	.07750	.04990	.43580	-.00189	-.00230	.00010	.00500	.60700	.04006
.260	12.610	.53190	.09880	.04940	.54060	-.01976	-.00240	.00020	.00500	.61600	.04106
.260	14.710	.63820	.12790	.04620	.64940	-.03842	-.00250	.00080	.00400	.62300	.04230
.260	16.860	.76000	.16860	.03930	.77620	-.05902	-.00280	.00100	.00500	.63100	.04481
.260	18.950	.85830	.24130	.02810	.89020	-.05059	-.01250	-.00630	.02500	.63800	.04803
.260	21.070	.96510	.30710	.02080	1.01100	-.06042	-.01280	-.00670	.02700	.64200	.05062
.260	23.200	1.06630	.38780	.01360	1.13280	-.06369	-.00840	-.00480	.02100	.64500	.05342
.260	25.360	1.15480	.47080	.01330	1.24520	-.06925	-.00470	-.00220	.01100	.64500	.05832
	GRADIENT	.04599	-.00111	-.00044	.04676	-.00010	-.00005	.00000	-.00010	-.04821	-.00004

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP007) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = 10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 7/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.200	-.21180	.05760	.02900	-.21550	.04197	-.00150	.00060	.00500	.69900	.04197
.260	-2.090	-.11500	.05220	.02830	-.11690	.04803	-.00150	.00050	.00400	.73900	.04126
.260	.020	-.01980	.04940	.02690	-.01980	.04947	-.00150	.00050	.00400	1.14900	.04042
.260	2.090	.07970	.05030	.02590	.08150	.04739	-.00150	.00060	.00300	.53200	.04011
.260	4.190	.17400	.05290	.02510	.17740	.04011	-.00180	.00040	.00500	.59700	.04041
.260	6.280	.27110	.06040	.02440	.27610	.03039	-.00160	.00040	.00300	.61700	.03926
.260	8.410	.37000	.07190	.02400	.37660	.01703	-.00200	.00030	.00400	.62600	.03920
.260	10.490	.46870	.08720	.02420	.47680	.00039	-.00230	.00000	.00500	.63100	.04078
.260	12.620	.57180	.11080	.02290	.58220	-.01678	-.00240	.00020	.00500	.63500	.04191
.260	14.710	.68100	.14060	.01880	.69440	-.03699	-.00270	.00090	.00500	.63900	.04473
.260	16.890	.79570	.18400	.01160	.81490	-.05512	-.00310	.00110	.00600	.64400	.04629
.260	18.980	.89900	.26010	-.00030	.93470	-.04639	-.01300	-.00640	.02700	.64900	.04971
.260	21.090	1.00520	.32700	-.00820	1.05560	-.05667	-.01280	-.00640	.02700	.65200	.05292
.260	23.220	1.10470	.40830	-.01610	1.17620	-.06032	-.00810	-.00510	.02100	.65400	.05681
.260	25.350	1.19310	.49270	-.01740	1.28920	-.06556	-.00420	-.00220	.01100	.65400	.06141
	GRADIENT	.04610	-.03054	-.00049	.04695	-.00021	-.00003	-.00001	-.00005	-.01938	-.00020

OA21 B17C7 M4F5 W107E23V7R6X0 (RDP008) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	15.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 8/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.180	-.18190	.05950	.00970	-.18530	.04617	-.00120	.00050	.00300	.66900	.04418
.260	-2.060	-.08280	.05540	.00980	-.08480	.05239	-.00120	.00050	.00300	.69200	.04280
.260	.000	.01110	.05450	.00930	.01110	.05453	-.00140	.00050	.00300	.34200	.04214
.260	2.140	.11150	.05480	.00830	.11350	.05059	-.00140	.00060	.00200	.62200	.04292
.260	4.200	.20630	.06090	.00720	.21020	.04569	-.00150	.00060	.00300	.63700	.04158
.260	6.330	.30480	.06920	.00630	.31060	.03518	-.00180	.00050	.00300	.64200	.04083
.260	8.410	.40230	.08080	.00490	.40980	.02110	-.00180	.00040	.00300	.64500	.04198
.260	10.480	.49970	.09660	.00480	.50900	.00409	-.00200	.00040	.00300	.64600	.04289
.260	12.640	.60240	.12090	.00440	.61430	-.01392	-.00240	.00040	.00400	.64700	.04300
.260	14.740	.71090	.15370	.00030	.72660	-.03222	-.00250	.00090	.00400	.64900	.04509
.260	16.870	.82460	.19610	-.00670	.84600	-.05173	-.00270	.00130	.00400	.65200	.04868
.260	18.980	.92650	.27210	-.01920	.96470	-.04418	-.01250	-.00600	.02500	.65700	.05308
.260	21.120	1.03070	.34190	-.02680	1.08470	-.05243	-.01250	-.00600	.02600	.65800	.05458
.260	22.890	1.13320	.41990	-.03410	1.20730	-.05401	-.00800	-.00490	.01900	.66000	.05989
.260	25.370	1.21820	.51000	-.03600	1.31920	-.06114	-.00410	-.00210	.00900	.65900	.06297
	GRADIENT	.04627	.00010	-.00031	.04720	-.00013	-.00004	.00001	-.00005	-.00625	-.00024

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP009) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMR =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 9/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.25560	.03520	.03950	-.25750	.01624	-.00170	.00090	.00500	.70600	.03469
.260	-2.120	-.15790	.02760	.03860	-.15860	.02175	-.00160	.00080	.00400	.73900	.03462
.260	-.020	-.05880	.02410	.03850	-.05880	.02414	-.00160	.00070	.00400	.89100	.03384
.260	2.040	.03480	.02350	.03810	.03560	.02228	-.00150	.00080	.00300	.25500	.03311
.260	4.140	.13170	.02580	.03840	.13320	.01625	-.00150	.00070	.00300	.54300	.03299
.260	6.250	.22940	.03150	.03850	.23150	.00637	-.00170	.00060	.00300	.58800	.03207
.260	8.360	.32850	.04180	.03890	.33110	-.00639	-.00200	.00040	.00300	.60600	.03155
.260	10.460	.42860	.05630	.03950	.43170	-.02251	-.00210	.00020	.00400	.61600	.03295
.260	12.570	.53090	.07720	.03930	.53500	-.04015	-.00230	.00020	.00500	.62200	.03420
.260	14.690	.63980	.10630	.03700	.64580	-.05943	-.00260	.00050	.00500	.62800	.03584
.260	16.800	.75710	.14770	.03050	.76750	-.07744	-.00290	.00100	.00500	.63500	.03665
.260	18.950	.86100	.22100	.01780	.88640	-.06975	-.01290	-.00660	.02700	.64200	.04007
.260	21.050	.97020	.28660	.00930	1.00830	-.08116	-.01280	-.00670	.02800	.64600	.04331
.260	23.190	1.06990	.36590	.00210	1.12760	-.08508	-.00830	-.00520	.02200	.64900	.04780
.260	25.320	1.15600	.44700	.00220	1.23610	-.09035	-.00440	-.00270	.01300	.64900	.05327
	GRADIENT	.04624	-.00110	-.00013	.04665	.00003	.00000	-.00002	-.00024	-.03849	-.00023

OA21 B 7C7 M4F5 W107E23V7R6X9 (RDP010) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 10/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	-.03820	.01280	.02630	-.03820	.01279	-.01290	.00080	.18200	.90300	.03764
.260	-5.070	-.02470	.02100	.03390	-.05270	.02104	-.00890	.00200	.09700	.88600	.03512
.260	.000	-.06060	.02480	.03920	-.06070	.02475	-.00210	.00100	.00500	.88800	.03394
.260	5.060	-.03750	.02080	.03510	-.05750	.02079	.00420	.00050	-.08400	.87400	.03555
.260	10.110	-.04290	.01010	.02610	-.04290	.01008	.01230	-.00030	-.17900	.87300	.03760
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP011) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 11/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.44340	.09050	.02780	.44520	-.03087	-.01680	.01710	.16200	.62800	.03008
.260	-5.070	.43540	.05600	.03910	.43830	-.02394	-.00980	.00870	.09400	.62000	.03269
.260	.000	.42980	.05720	.04000	.43290	-.02177	-.01250	.00040	.00600	.61500	.03242
.260	5.070	.43540	.05460	.03580	.43810	-.02538	.00510	-.00760	-.08500	.61900	.03582
.260	10.119	.44570	.04930	.02690	.44720	-.03255	.01340	-.01660	-.17000	.62700	.03825
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP012) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 12/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.71920	.12630	.01530	.72650	-.07370	-.01750	.02170	.18400	.64200	.03957
.260	-5.060	.70160	.12610	.02940	.70970	-.06913	-.00910	.01160	.09200	.63400	.03545
.260	.000	.70090	.12710	.03390	.70910	-.05796	-.00270	.00120	.00500	.63200	.03578
.260	5.080	.70740	.12630	.02930	.71510	-.07050	.00260	-.00980	-.07900	.63400	.03593
.260	10.120	.72880	.12640	.01150	.73630	-.07450	.01150	-.02150	-.17300	.64400	.04001
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 H4F5 W107E23V7R6X9 (RDP013) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BOFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 13/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.280	-10.130	.96350	.29580	-.01220	1.00540	-.07002	-.02440	.01540	.19500	.69400	.04755
.280	-5.060	.95720	.28900	.00570	.99710	-.07418	-.01900	.00460	.11300	.64700	.04249
.280	.000	.96690	.28670	.00990	1.00530	-.08003	-.01270	-.00690	.02600	.64600	.04288
.280	5.070	.96540	.27840	.00780	1.01960	-.09466	-.00390	-.01430	-.06700	.64700	.04291
.280	10.130	1.01160	.28240	-.00710	1.04550	-.10083	.00440	-.02620	-.16000	.65200	.04653
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 H4F5 W107E23V7R6X9 (RDP014) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BOFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = .000

RUN NO. 14/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.280	-10.130	-.03670	.01160	.02470	-.03670	.01166	-.00520	-.00320	.16500	.69700	.03810
.280	-5.070	-.05230	.02140	.03310	-.05230	.02137	.00230	-.00410	.07300	.68300	.03326
.280	.000	-.05990	.02490	.03810	-.06000	.02492	.00980	-.00550	-.01900	.68400	.03289
.280	5.060	-.05520	.01950	.03270	-.05520	.01947	.01670	-.00650	-.11200	.68700	.03572
.280	10.120	-.04340	.01080	.02650	-.04340	.01058	.02020	-.00430	-.19800	.67400	.03896
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 75 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP015) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-7.500
SPDBRK =	.000		

RUN NO. 15/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.44410	.03040	.02670	.44580	-.03109	-.00980	.01340	.17000	.62700	.03602
.260	-5.080	.43350	.03560	.03420	.43640	-.02407	-.00070	.00400	.07800	.62000	.03222
.260	.000	.42950	.03760	.03910	.43260	-.02136	.00790	-.00500	-.01300	.61600	.03198
.260	5.050	.43370	.03570	.03400	.43630	-.02594	.01520	-.01290	-.10600	.62100	.03443
.260	10.110	.44430	.04860	.02630	.44580	-.03289	.02050	-.02080	-.19300	.62700	.04057
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP016) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-7.500
SPDBRK =	.000		

RUN NO. 16/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.71920	.12640	.01440	.72650	-.07372	-.01030	.01830	.17100	.64200	.03935
.260	-5.080	.70320	.12630	.02890	.71100	-.06944	-.00010	.00700	.07500	.63400	.03514
.260	.000	.70190	.12760	.03310	.71020	-.06781	.00630	-.00340	-.01000	.63200	.03580
.260	5.050	.70830	.12590	.02770	.71590	-.07135	.01260	-.01500	-.10000	.63500	.03648
.260	10.110	.72690	.12800	.01120	.73620	-.07500	.01990	-.02560	-.19200	.64400	.04094
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP017) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = .000

RUN NO. 17/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.96430	.29370	-.01270	1.00620	-.08894	-.01780	.01210	.18100	.65400	.04708
.260	-5.060	.95870	.28950	.00450	.99690	-.07295	-.00980	.00910	.09500	.64800	.04251
.260	.000	.97250	.28370	.00890	1.01080	-.07625	-.00230	-.01200	.01600	.64600	.04325
.260	5.040	.98680	.27980	.00710	1.02100	-.09550	.00590	-.01950	-.08700	.64700	.04310
.260	10.120	1.00790	.28090	-.00820	1.04150	-.10019	.01230	-.03140	-.17800	.65200	.04730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP018) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = .000

RUN NO. 18/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.04120	.01490	.02790	-.04120	.01491	.00480	-.00850	.14400	.69900	.03759
.260	-5.070	-.05570	.02450	.03690	-.05570	.02448	.01340	-.00980	.04900	.69300	.03623
.260	.000	-.06280	.02880	.04190	-.06280	.02681	.01910	-.01010	-.03900	.69600	.03546
.260	5.080	-.05740	.02280	.03550	-.05750	.02278	.02650	-.01140	-.13200	.67900	.03625
.260	10.110	-.04590	.01350	.03040	-.04590	.01352	.02720	-.00750	-.21300	.69300	.04172
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP019) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = .000

RUN NO. 19/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	.44090	.05230	.02970	.44280	-.02619	-.00080	.00920	.15100	.62500	.03757
.260	-5.070	.41290	.05810	.03740	.43260	-.02055	.00900	-.00080	.05900	.61700	.03450
.260	.000	.42680	.06090	.04190	.43080	-.01741	.01720	-.00960	-.03200	.61300	.03375
.260	5.090	.42900	.05720	.03720	.43230	-.02146	.02270	-.01660	-.12100	.61600	.03504
.260	10.110	.44230	.05090	.02960	.44420	-.03009	.02670	-.02300	-.20600	.62500	.04210
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP020) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = .000

RUN NO. 20/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	.71610	.12610	.01640	.72400	-.07118	-.00190	.01440	.15300	.64100	.04056
.260	-5.070	.69940	.12970	.03140	.70840	-.06513	.00950	.00230	.05600	.63500	.03670
.260	.000	.69930	.13090	.03560	.70860	-.06391	.01660	-.00810	-.03200	.63100	.03723
.260	5.040	.70680	.12890	.03040	.71500	-.06779	.02210	-.01950	-.12000	.63400	.03689
.260	10.130	.72930	.13050	.01300	.73730	-.07268	.02730	-.02690	-.20900	.64300	.04003
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP021) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	BODYAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-15.000
SPDBRK =	.000		

RUN NO. 21/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.96230	.29730	-.01080	1.00900	-.06761	-.00880	.00770	.16300	.65300	.04802
.260	-5.090	.95540	.29220	.00770	.99680	-.07033	-.00020	-.00430	.07600	.64600	.04572
.260	.000	.96860	.29190	.01120	1.00880	-.07552	.00740	-.01600	-.01200	.64500	.04514
.260	5.080	.96630	.28110	.00960	1.02150	-.09229	.01530	-.02400	-.10700	.64800	.04373
.260	10.120	1.00860	.28300	-.00670	1.04290	-.09678	.01950	-.03510	-.19400	.65200	.04726
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP022) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BODFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	25.000		

RUN NO. 22/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.230	-.26340	.04270	.04950	-.26580	.02312	-.00060	.00020	.00300	.71600	.03800
.260	-2.140	-.16620	.03550	.04790	-.16740	.02929	-.00100	.00010	.00300	.75500	.03622
.260	-.030	-.06890	.03130	.04750	-.06890	.03129	-.00100	.00010	.00200	.90300	.03585
.260	2.090	.02490	.02950	.04650	.02600	.02860	-.00090	.00020	.00200	-.00800	.03512
.260	4.130	.12620	.03190	.04630	.12820	.02272	-.00110	.00040	.00200	.51600	.03492
.260	6.230	.22040	.03700	.04620	.22310	.01286	-.00120	.00040	.00200	.57300	.03422
.260	8.330	.31960	.04590	.04660	.32290	-.00063	-.00150	.00010	.00300	.59600	.03439
.260	10.460	.42040	.06120	.04680	.42450	-.01608	-.00180	.00000	.00300	.60900	.03405
.260	12.580	.52570	.08200	.04670	.53100	-.03442	-.00220	.00000	.00400	.61700	.03590
.260	14.690	.63430	.11090	.04360	.64170	-.05357	-.00250	.00060	.00500	.62400	.03713
.260	16.790	.74970	.15100	.03730	.76130	-.07208	-.00280	.00110	.00500	.63100	.03854
.260	18.930	.85620	.22410	.02440	.86260	-.06575	-.01270	-.00650	.02700	.63900	.04254
.260	21.060	.96230	.28940	.01630	1.00210	-.07583	-.01270	-.00680	.02800	.64300	.04443
.260	23.170	1.06210	.36740	.00910	1.12100	-.08027	-.00810	-.00540	.02200	.64600	.04924
.260	25.290	1.15160	.44990	.00830	1.23360	-.08538	-.00460	-.00260	.01300	.64700	.05425
	GRADIENT	.04643	-.00132	-.00037	.04698	-.00007	-.00002	.00002	-.00014	-.05568	-.00035

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP023) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	25.000		

RUN NO. 23/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.04480	.01800	.03200	-.04460	.01800	-.01970	.00420	.19500	.91300	.03927
.260	-5.070	-.09910	.02700	.04100	-.05920	.02697	-.01000	.00260	.09600	.90400	.03718
.260	.000	-.06810	.03110	.04360	-.06810	.03110	-.00100	.00020	.00300	.90100	.03550
.260	5.080	-.06310	.02640	.04160	-.06310	.02638	.00650	-.00070	-.06900	.89200	.03795
.260	10.120	-.04850	.01580	.03270	-.04850	.01584	.01660	-.00250	-.18900	.89800	.04040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP024) (09 JUL 73)

REFERENCE DATA

SREF =	4.41.9 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	10.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	25.000		

RUN NO. 24/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	.44030	.05340	.03160	.44260	-.02745	-.02220	.01980	.19300	.62300	.04078
.260	-5.070	.42950	.05960	.04080	.43320	-.01941	-.01230	.01000	.09900	.61500	.03544
.260	.010	.42150	.06130	.04660	.42560	-.01625	-.00190	.00000	.00400	.60900	.03479
.260	5.050	.42900	.05870	.04110	.43250	-.02023	.00740	-.00890	-.08900	.61400	.03570
.260	10.120	.44100	.05200	.03020	.44510	-.02893	.01720	-.01840	-.18600	.62400	.04256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-TDS OA21A (RDP025) (09 JUL 73)

OA21 B17C7 H4F5 W107E23V7R6X9

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 25.000

RUN NO. 25/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.7218	.12950	.02000	.72020	-.06874	-.02300	.02450	.19600	.63900	.04039
.260	-5.060	.69610	.13030	.03620	.70530	-.06353	-.01070	.01240	.09500	.63000	.03702
.260	.000	.69370	.13100	.04000	.70320	-.06230	-.00280	.00110	.00300	.62800	.03763
.260	5.050	.69960	.12970	.03530	.70870	-.06522	.00440	-.01060	-.08300	.63100	.03768
.260	10.120	.72470	.13200	.01560	.73330	-.06992	.01620	-.02340	-.18700	.64100	.04112
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 H4F5 W107E23V7R6X9 (RDP026) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 25.000

RUN NO. 26/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.96230	.29900	-.00710	1.00570	-.06610	-.03110	.01840	.20900	.65200	.04815
.260	-5.060	.95110	.29290	.01260	.99280	-.06033	-.02110	.00580	.11600	.64500	.04352
.260	.000	.96470	.29070	.01630	1.00470	-.07558	-.01280	-.00670	.02800	.64300	.04509
.260	5.070	.98200	.28160	.01450	1.01760	-.09043	-.00250	-.01500	-.06900	.64400	.04429
.260	10.130	1.00720	.28220	-.00330	1.04130	-.09929	.00720	-.03090	-.16600	.65000	.04826
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E2[illegible]7R6X9 (RDP027) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 25.000

RUN NO. 27/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	-.04420	.01760	.03240	-.04420	.01761	-.00890	-.00190	.17300	.91900	.03976
.260	-5.070	-.06230	.02770	.04290	-.06230	.02773	.00160	-.00360	.07400	.90300	.03863
.260	-.020	-.06880	.03270	.04800	-.06880	.03267	.00960	-.00530	-.01800	.90600	.03687
.260	5.040	-.06600	.02650	.04260	-.06610	.02652	.01740	-.00650	-.11300	.88700	.04075
.260	10.120	-.05180	.01680	.03190	-.05180	.01681	.02540	-.00720	-.20800	.89700	.04236
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E[illegible]3V7R6X9 (RDP028) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 25.000

RUN NO. 28/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	.44010	.05370	.03220	.44250	-.02718	-.01300	.01530	.17600	.62300	.04055
.260	-5.080	.42730	.06020	.04230	.43110	-.01837	-.00140	.00450	.07900	.61300	.03582
.260	.000	.42110	.06290	.04860	.42560	-.01467	.00800	-.00510	-.01300	.60700	.03546
.260	5.050	.42350	.05970	.04290	.42730	-.01815	.01670	-.01370	-.10800	.61200	.03708
.260	10.120	.43930	.05260	.03300	.44150	-.02803	.02410	-.02190	-.20000	.62200	.04576
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP029) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 25.000

RUN NO. 29/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.150	.71370	.12870	.01950	.72180	-.06982	-.01470	.02050	.17900	.63900	.04115
.260	-5.070	.69360	.13190	.03820	.70340	-.06116	-.00060	.00740	.07600	.62900	.03654
.260	.000	.68910	.13140	.04230	.69890	-.06045	.00700	-.00370	-.01100	.62700	.03616
.260	5.040	.69870	.12980	.03780	.70770	-.06460	.01360	-.01530	-.10100	.63000	.03971
.260	10.120	.72380	.13260	.01880	.73260	-.06891	.02320	-.02700	-.19900	.64000	.04265
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP030) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 25.000

RUN NO. 30/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.96110	.29920	-.00800	1.00440	-.06598	-.02230	.01460	.19000	.65200	.04830
.260	-5.060	.94690	.29310	.01480	.98900	-.06636	-.01050	.00090	.09600	.64400	.04375
.260	.000	.96280	.29120	.01820	1.00310	-.07437	-.00250	-.01160	.00800	.64300	.04573
.260	5.060	.98020	.28180	.01690	1.01600	-.08961	.00670	-.01960	-.08900	.64300	.04522
.260	10.130	1.00310	.28500	.00000	1.03850	-.09506	.01550	-.03330	-.18300	.64900	.04968
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 3 TABULATED SOURCE DATA NAAL-705 OA21A (RDP031) (09 JUL 73)

OA21 B17C7 M4F5 W107E23V7R6X9

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 25.000

RUN NO. 31/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	-.04910	.02060	.03580	-.04910	.02067	.00110	-.00630	.15100	.91800	.03987
.260	-5.070	-.06500	.03130	.04790	-.06510	.03128	.01310	-.00970	.05100	.92000	.04015
.260	-.010	-.07360	.03570	.05270	-.07360	.03570	.02150	-.01140	-.04300	.91300	.03983
.260	5.060	-.07010	.02990	.04740	-.07010	.02990	.02890	-.01250	-.13700	.89800	.04329
.260	10.130	-.05620	.02140	.04170	-.05520	.02139	.03250	-.01060	-.22400	.92200	.04476
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E2?V7R6X9 (RDP032) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 25.000

RUN NO. 32/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.43570	.05600	.03550	.43870	-.02399	-.00380	.01070	.15800	.62000	.04032
.260	-5.070	.41870	.06340	.04770	.42320	-.01357	.00880	-.00040	.05900	.60800	.03672
.260	-.010	.41540	.06610	.05300	.42050	-.01028	.01790	-.00990	-.03300	.60300	.03616
.260	5.050	.42160	.06210	.04650	.42590	-.01533	.02550	-.01810	-.12700	.60900	.03934
.260	10.120	.43450	.05470	.03660	.43730	-.02502	.03170	-.02570	-.21600	.61800	.04733
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP033) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 25.000

RUN NO. 33/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.71000	.13090	.02230	.71890	-.06685	-.00470	.01570	.15800	.63800	.04160
.260	-5.070	.68900	.13360	.04270	.69940	-.05843	.00900	.00270	.05800	.62700	.03838
.260	.000	.68870	.13470	.04610	.69940	-.05734	.01670	-.00830	-.03100	.62500	.03911
.260	5.050	.69490	.13300	.04130	.70490	-.06075	.02240	-.01960	-.11900	.62800	.03993
.260	10.120	.72200	.13570	.02270	.73170	-.06569	.02990	-.02020	-.21300	.63800	.04364
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP034) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 25.000

RUN NO. 34/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.95960	.30120	-.00690	1.00370	-.06422	-.01300	.01010	.17200	.65200	.04839
.260	-5.070	.94720	.29600	.01840	.99030	-.06465	-.00070	.00360	.07700	.64200	.04627
.260	.000	.96070	.29510	.02230	1.00250	-.07075	.00730	-.01630	-.01100	.64100	.04728
.260	5.060	.97830	.28560	.02050	1.01560	-.08606	.01550	-.02380	-.10700	.64200	.04607
.260	10.130	1.00050	.28530	.00400	1.03610	-.09457	.02030	-.03630	-.19600	.64800	.05040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP035) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	85.000		

RUN NO. 35/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.31290	.08490	.10600	-.31840	.06158	-.00140	.00000	.00500	.77200	.06139
.260	-2.140	-.21470	.07620	.10450	-.21740	.06812	-.00160	.00000	.00500	.82600	.05993
.260	-.050	-.12120	.07030	.10450	-.12130	.07027	-.00150	.00000	.00400	.96700	.05923
.260	2.010	-.02600	.06750	.10360	-.02370	.06840	-.00160	.00000	.00400	2.25800	.05818
.260	4.130	.06990	.06870	.10220	.07470	.06348	-.00140	.00000	.00300	.14600	.05580
.260	6.230	.16810	.07190	.10170	.17490	.05329	-.00130	.00000	.00300	.43500	.05489
.260	8.340	.26510	.07980	.10240	.27390	.04048	-.00160	.00000	.00300	.51200	.05431
.260	10.450	.36390	.09300	.10300	.37480	.02549	-.00160	-.00030	.00300	.54800	.05287
.260	12.560	.46770	.11180	.10410	.48090	.00743	-.00190	-.00040	.00400	.57000	.05376
.260	14.670	.5738	.13870	.10170	.59020	-.01114	-.00190	.00000	.00400	.58600	.05385
.260	16.800	.6947	.17760	.09430	.71640	-.03079	-.00220	.00070	.00500	.60100	.05462
.260	18.920	.79510	.24690	.08330	.83210	-.02463	-.01140	-.00650	.02500	.61200	.05807
.260	21.060	.90450	.30870	.07550	.95500	-.03694	-.01200	-.00700	.02700	.62000	.06188
.260	23.170	1.00780	.38470	.06840	1.07790	-.04282	-.00780	-.00570	.02300	.62600	.06611
	GRADIENT	.04568	-.00197	-.00041	.04691	.00020	.00000	.00000	-.00024	.00780	-.00062

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP036) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	85.000		

RUN NO. 36/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.09630	.05500	.08570	-.09640	.05493	-.01940	.00230	.19500	.97600	.06135
.260	-5.060	-.11470	.06750	.10050	-.11470	.06746	-.00890	.00070	.09700	.97200	.06086
.260	.000	-.12040	.07020	.10460	-.12040	.07012	-.00130	.00000	.00400	.96900	.06003
.260	5.060	-.11780	.06390	.09930	-.11790	.06383	.00570	.00000	-.08700	.95900	.06418
.260	10.130	-.10940	.04950	.08520	-.10940	.04943	.01660	-.00120	-.18800	.96200	.06656
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP037) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 18.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 85.000

RUN NO. 37/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.38760	.08370	.08290	.39640	.01200	-.01950	.01730	.16900	.57200	.05700
.260	-5.060	.38860	.09490	.10310	.37970	.02643	-.00870	.00790	.09100	.54900	.05281
.260	.020	.38600	.09330	.10280	.37690	.02541	-.00140	-.00030	.00300	.54900	.05343
.260	5.090	.37170	.08620	.09500	.36160	.01939	.00540	-.00760	-.08300	.55800	.05712
.260	10.110	.39340	.07710	.07830	.40090	.00440	.01610	-.01670	-.18200	.57700	.06321
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP038) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 18.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 85.000

RUN NO. 38/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.63790	.15830	.07610	.67620	-.02604	-.01640	.02170	.18600	.60800	.05334
.260	-5.070	.63400	.16270	.10000	.65440	-.01524	-.00700	.00980	.08800	.59300	.05021
.260	-.010	.63660	.15750	.09720	.65550	-.02144	-.00180	.00060	.00400	.59500	.05476
.260	5.040	.64120	.15700	.09400	.65980	-.02271	.00230	-.00890	-.07600	.59700	.05554
.260	10.130	.63060	.15670	.06950	.68800	-.03113	.01210	-.02150	-.17200	.61200	.05860
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAIL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP039) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 18.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPOBRK = 85.000

RUN NO. 39/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.90890	.32490	.04980	.96500	-.02355	-.02730	.01650	.20100	.63000	.05788
.260	-5.070	.89310	.31770	.07510	.94780	-.02447	-.01590	.00370	.10500	.62000	.05698
.260	-.010	.90400	.31090	.07680	.95530	-.03495	-.01180	-.00690	.02700	.62000	.06065
.260	5.040	.91790	.30640	.07750	.96670	-.04445	-.00660	-.01280	-.06000	.62000	.05840
.260	10.120	.95490	.31040	.05280	1.00260	-.05456	.00480	-.02760	-.16100	.63000	.06039
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP040) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPOBRK = 85.000

RUN NO. 40/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	-.09840	.05280	.08250	-.09850	.05276	-.01330	.00000	.18100	.95800	.06098
.260	-5.070	-.11610	.06670	.09970	-.11620	.06665	-.00150	-.00220	.07900	.96500	.05959
.260	-.020	-.12050	.07130	.10310	-.12060	.07127	.00900	-.00240	-.01000	.96400	.05784
.260	5.030	-.11750	.06460	.09760	-.11750	.06457	.01200	-.00240	-.10200	.95500	.06178
.260	10.100	-.10090	.05030	.08440	-.10090	.05022	.02200	-.00330	-.20200	.95700	.06505
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP041) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 85.000

RUN NO. 41/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.150	.38780	.08280	.08250	.39640	.01094	-.01460	.01560	.17800	.57300	.05718
.260	-5.080	.36740	.09420	.10290	.37640	.02589	-.00410	.00630	.08000	.54900	.05196
.260	-.010	.36620	.09260	.10150	.37700	.02453	.00290	-.00170	-.00700	.55000	.05341
.260	5.010	.37470	.08800	.09310	.38450	.01846	.01040	-.00940	-.09600	.56000	.05587
.260	10.100	.39410	.07770	.07750	.40160	.00469	.02040	-.01830	-.19300	.57800	.06244
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP042) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 85.000

RUN NO. 42/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.150	.65570	.15830	.07760	.67400	-.02603	-.01440	.02040	.17600	.60700	.05372
.260	-5.080	.63530	.16200	.09990	.65540	-.01674	-.00360	.00880	.07900	.59300	.04994
.260	-.010	.63630	.15780	.09620	.65520	-.02116	.00190	-.00040	-.00300	.59500	.05327
.260	5.030	.64310	.15660	.09130	.66150	-.02415	.00570	-.01000	-.08500	.59900	.05426
.260	10.120	.67560	.15770	.06720	.69310	-.03212	.01640	-.02270	-.18300	.61400	.05657
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP043) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 85.000

RUN NO. 43/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.90520	.32180	.05020	.98040	-.02462	-.02280	.01530	.18900	.63000	.05879
.260	-5.070	.88490	.31690	.07940	.93930	-.02165	-.01340	.00290	.10000	.61800	.05574
.260	.010	.90490	.31020	.07530	.95540	-.03541	-.00760	-.00800	.01600	.62000	.06033
.260	5.060	.92550	.30260	.07400	.97050	-.04972	-.00480	-.01380	-.06500	.62100	.05776
.260	10.120	.95250	.30610	.05260	.99880	-.05737	.00660	-.02990	-.16600	.63000	.05849
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP044) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 85.000

RUN NO. 44/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	-.09580	.05150	.07990	-.09590	.05143	-.00680	-.00280	.16500	.95600	.05984
.260	-5.060	-.11640	.06890	.10030	-.11640	.06883	.00660	-.00570	.06000	.96600	.05837
.260	.000	-.11860	.07230	.10130	-.11860	.07219	.01190	-.00520	-.02600	.96300	.05815
.260	5.050	-.11620	.06600	.09740	-.11630	.06591	.01700	-.00450	-.11400	.95700	.05945
.260	10.130	-.10110	.05370	.08640	-.10110	.05366	.02500	-.00450	-.20900	.96400	.06137
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP045) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 85.000

RUN NO. 45/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.38640	.08300	.08200	.39900	.01152	-.00910	.01360	.18400	.57300	.05670
.260	-5.070	.36500	.09520	.10320	.37630	.02735	.00050	.00450	.07000	.54800	.05049
.260	.000	.36490	.09390	.10100	.37590	.02623	.00720	-.00290	-.01600	.55000	.05159
.260	5.040	.37470	.08620	.09230	.38450	.01881	.01420	-.01080	-.10500	.56100	.05387
.260	10.110	.39370	.07810	.07720	.40140	.00532	.02370	-.01950	-.20100	.57900	.06005
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP046) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 85.000

RUN NO. 46/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.65650	.15690	.07630	.67440	-.02752	-.01010	.01910	.16600	.60800	.05435
.260	-5.070	.63340	.16110	.09930	.65340	-.01700	.00000	.00750	.07100	.59300	.04933
.260	-.010	.63580	.15840	.09640	.65490	-.02017	.00510	-.00110	-.01100	.59500	.05259
.260	5.050	.64650	.15630	.08890	.66460	-.02524	.00870	-.01100	-.09200	.60000	.05313
.260	10.130	.67680	.15600	.06630	.69430	-.03210	.02000	-.02410	-.19300	.61400	.05278
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23VTR6X9 (RDP047) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 85.000

RUN NO. 47/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.90240	.32040	.04820	.95750	-.02451	-.01850	.01390	.17800	.63100	.05845
.260	-5.050	.88810	.31580	.07700	.94230	-.02409	-.00980	.00200	.09000	.61900	.05490
.260	.000	.90750	.31130	.07350	.95880	-.03522	-.00420	-.00880	.00700	.62100	.05953
.260	5.050	.92780	.30150	.06990	.97420	-.05190	-.00190	-.01470	-.07200	.62300	.05765
.260	10.130	.95550	.30700	.04940	1.00200	-.05697	.00850	-.03030	-.17100	.63100	.05556
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23VTR6X9 (RDP048) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 48/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.250	-.28350	.06190	.07440	-.28740	.04075	-.00240	.00100	.00600	.74500	.04600
.260	-2.130	-.18650	.05390	.07350	-.18840	.04701	-.00240	.00080	.00600	.79300	.04521
.260	-.050	-.09080	.04910	.07240	-.09090	.04902	-.00230	.00070	.00500	.94200	.04467
.260	2.020	.00310	.04740	.07190	.00470	.04727	-.00230	.00060	.00500	-4.87900	.04421
.260	4.130	.10140	.04840	.07200	.10460	.04104	-.00230	.00070	.00400	.39600	.04356
.260	6.250	.19940	.05320	.07180	.20400	.03123	-.00230	.00060	.00400	.52000	.04263
.260	8.350	.29650	.06290	.07230	.30250	.01921	-.00250	.00050	.00400	.56100	.04101
.260	10.460	.39580	.07660	.07250	.40310	.00343	-.00260	.00020	.00500	.58300	.04123
.260	12.560	.49940	.09680	.07230	.50850	-.01420	-.00290	.00050	.00600	.59700	.04200
.260	14.670	.61070	.12430	.07020	.62230	-.03446	-.00300	.00080	.00600	.60800	.04384
.260	16.800	.72490	.16300	.06300	.74100	-.05349	-.00340	.00110	.00700	.61800	.04455
.260	18.940	.82940	.23600	.05200	.86110	-.04596	-.01300	-.00600	.02700	.62700	.04771
.260	21.050	.93610	.29980	.04400	.98130	-.05660	-.01320	-.00640	.02900	.63300	.04996
.260	23.170	1.03790	.37680	.03610	1.10250	-.06209	-.00890	-.00510	.02400	.63700	.05532
.260	25.300	1.12650	.45530	.03580	1.21300	-.06987	-.00540	-.00300	.01500	.63800	.06005
	GRADIENT	.04588	-.00160	-.00031	.04673	.00004	.00001	-.00003	-.00024	-.30269	-.00028

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP049) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 49/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.07130	.03610	.05920	-.07130	.03610	-.02040	.00410	.19700	.95500	.04719
.260	-5.050	-.08380	.04750	.06910	-.08380	.04752	-.01010	.00220	.09800	.95300	.04462
.260	.000	-.09160	.04980	.07320	-.09170	.04974	-.00220	.00080	.00500	.94300	.04479
.260	5.080	-.08710	.04210	.06640	-.08710	.04210	.00570	-.00030	-.08700	.93000	.04973
.260	10.130	-.07190	.03090	.05500	-.07190	.03085	.01650	-.00210	-.18700	.93100	.05119
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7K6X9 (RDP050) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 50/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.42130	.06650	.05290	.42640	-.01106	-.02240	.01960	.19400	.60400	.04662
.260	-5.060	.40290	.07490	.06720	.40990	.00057	-.01170	.00980	.09700	.58900	.04084
.260	.010	.39660	.07730	.07280	.40410	.00394	-.00260	.00120	.00500	.58300	.04064
.260	5.040	.40640	.07080	.06180	.41250	-.00414	.00620	-.00810	-.08600	.59400	.04454
.260	10.130	.42280	.06040	.04650	.42670	-.01739	.01670	-.01790	-.18400	.60900	.05328
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP051) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 51/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.68640	.14080	.04390	.69090	-.05058	-.02320	.02490	.19600	.62800	.04401
.260	-5.070	.66780	.14300	.06340	.68160	-.04327	-.01040	.01190	.09400	.61500	.04102
.260	.000	.66600	.14250	.06610	.67980	-.04329	-.00300	.00130	.00800	.61400	.04369
.260	5.050	.67390	.13880	.05870	.68630	-.04910	.00350	-.00970	-.07900	.61800	.04582
.260	10.130	.70010	.14050	.03730	.71200	-.05467	.01490	-.02280	-.18000	.63000	.04787
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7RGX9 (RDP052) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 52/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	.94160	.31090	.01580	.99030	-.04893	-.03150	.01880	.20900	.64300	.05133
.260	-5.060	.92660	.30530	.04040	.97440	-.04842	-.02070	.00560	.11500	.63400	.04736
.260	.000	.93090	.30150	.04390	.98450	-.05677	-.01310	-.00650	.02900	.63300	.09075
.260	5.050	.95650	.29190	.04060	.99750	-.07224	-.00370	-.01430	-.06600	.63400	.05000
.260	10.120	.98400	.29520	.01960	1.02420	-.07914	.00780	-.02960	-.16700	.64200	.05303
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP053) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 55.000

RUN NO. 53/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	-.06970	.05430	.05620	-.06910	.03434	-.01100	-.00030	.17700	.94600	.04823
.260	-5.080	-.06410	.04640	.06880	-.06410	.04637	.00000	-.00290	.07700	.95000	.04557
.260	-.010	-.09290	.05060	.07390	-.09930	.05058	.00820	-.00440	-.01600	.94200	.04381
.260	5.020	-.09040	.04690	.07130	-.09040	.04683	.01510	-.00470	-.10700	.94000	.04545
.260	10.110	-.07270	.03460	.06050	-.07260	.03456	.02470	-.00610	-.20700	.95500	.04923
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP054) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -7.500
SPDBRK = 55.000

RUN NO. 54/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.42110	.06610	.05160	.42610	-.01159	-.01420	.01570	.17800	.60500	.04703
.260	-5.080	.40170	.07510	.06760	.40870	.00082	-.00280	.00560	.08000	.58800	.04140
.260	-.020	.39500	.07900	.07490	.40280	.00588	.00590	-.00340	-.01000	.58100	.03913
.260	5.030	.40430	.07400	.06550	.41100	-.00070	.01500	-.01220	-.10500	.59100	.04126
.260	10.100	.42360	.06370	.04980	.42810	-.01441	.02440	-.02110	-.20200	.60800	.05127
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-PDS OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP055) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	15.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-7.500
SPDBRK =	55.000		

RUN NO. 55/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.140	.68990	.14100	.04280	.70230	-.05171	-.01520	.02080	.17900	.62700	.04526
.260	-5.080	.67020	.14390	.06270	.68410	-.04350	-.00190	.00820	.07700	.61800	.04172
.260	-.020	.66590	.14500	.06890	.68020	-.04131	.00480	-.00200	-.00800	.61200	.04217
.260	5.040	.67730	.14270	.06160	.69060	-.04669	.01150	-.01330	-.09800	.61800	.04319
.260	10.100	.70550	.14380	.03850	.71800	-.05340	.02230	-.02580	-.19700	.63000	.04577
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP056) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

ALPHA =	20.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-7.500
SPDBRK =	55.000		

RUN NO. 56/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.94240	.30850	.01380	.99030	-.05051	-.02370	.01530	.19200	.64400	.05236
.260	-5.050	.92620	.30400	.04190	.97360	-.04903	-.01210	.00220	.09700	.63300	.04869
.260	.020	.93810	.30210	.04470	.98400	-.05536	-.00490	-.00990	.01100	.63300	.04912
.260	5.080	.96130	.29350	.03960	1.00250	-.07210	.00400	-.01730	-.08400	.63500	.04823
.260	10.140	.98380	.29580	.02090	1.02430	-.07819	.01480	-.03250	-.18400	.64200	.05107
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP057) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 55.000

RUN NO. 57/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	-.06930	.03430	.05740	-.06930	.03426	-.00270	-.00450	.15900	.95400	.04747
.260	-5.070	-.08640	.04760	.07130	-.08640	.04757	.00940	-.00750	.05700	.95300	.04567
.260	.000	-.09270	.05230	.07580	-.09270	.05224	.01620	-.00830	-.03300	.95000	.04451
.260	5.070	-.08950	.04570	.07150	-.08950	.04572	.02280	-.00650	-.12500	.94300	.04829
.260	10.130	-.07430	.03590	.06130	-.07440	.03589	.03060	-.00870	-.22000	.95300	.05009
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP058) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BOFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 55.000

RUN NO. 58/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.41840	.06650	.05300	.42360	-.01055	-.00710	.01230	.16300	.60300	.04586
.260	-5.050	.39850	.07650	.07140	.40580	.00290	.00510	.00180	.06400	.58500	.04019
.260	.000	.39540	.07880	.07580	.40310	.00579	.01290	-.00670	-.02400	.58000	.04035
.260	5.060	.40500	.07380	.06590	.41170	-.00090	.02170	-.01540	-.11900	.59000	.04376
.260	10.140	.41940	.06590	.05450	.42440	-.01135	.02920	-.02340	-.21200	.60200	.05259
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP059) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 55.000

RUN NO. 59/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.68900	.14080	.04360	.70140	-.05148	-.00730	.01720	.16300	.62600	.04565
.260	-5.060	.68740	.14520	.06620	.68180	-.04145	.00540	.00480	.06300	.61400	.04079
.260	.000	.68570	.14450	.06830	.67990	-.04156	.01160	-.00500	-.02200	.61200	.04274
.260	5.060	.67540	.14260	.06110	.68880	-.04615	.01760	-.01620	-.11000	.61700	.04432
.260	10.140	.70340	.14590	.04210	.71660	-.05076	.02640	-.02770	-.20600	.62800	.04732
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.0000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP060) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = -15.000
SPDBRK = 55.000

RUN NO. 60/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.94250	.30960	.01470	.99080	-.04979	-.01580	.01220	.17600	.64400	.05171
.260	-5.070	.92310	.30460	.04260	.97100	-.04733	-.00420	-.00130	.08200	.63300	.04769
.260	-.010	.94070	.30170	.04220	.98630	-.05676	.00270	-.01340	-.00400	.63400	.05021
.260	5.060	.95860	.29270	.03890	.99980	-.07196	.00970	-.02050	-.09700	.63500	.04906
.260	10.120	.97680	.29500	.02630	1.01760	-.07645	.01830	-.03480	-.19100	.64000	.05284
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP081) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 5.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 61/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.190	-.18870	.05740	.03540	-.20240	.04272	-.00180	.00190	.00500	.71400	.04824
.260	-2.080	-.10170	.05220	.03510	-.10360	.04853	-.00150	.00180	.00400	.77400	.04731
.260	.010	-.00750	.05060	.03430	-.00750	.05061	-.00150	.00180	.00300	2.35700	.04602
.260	2.090	.09010	.05190	.03380	.09190	.04858	-.00150	.00180	.00200	.51400	.04486
.260	4.190	.18730	.05520	.03260	.19080	.04140	-.00170	.00170	.00200	.58600	.04436
.260	6.300	.28320	.06340	.03250	.28840	.03197	-.00190	.00140	.00300	.60800	.04294
.260	8.390	.38160	.07550	.03250	.38860	.01902	-.00200	.00130	.00300	.61800	.04162
.260	10.500	.48170	.09100	.03300	.49030	.00172	-.00230	.00090	.00400	.62500	.04271
.260	12.630	.58280	.11440	.03270	.59370	-.01581	-.00240	.00100	.00400	.62900	.04269
.260	14.730	.69060	.14500	.02990	.70480	-.03539	-.00280	.00170	.00500	.63400	.04434
.260	16.850	.80710	.18710	.02240	.82670	-.05492	-.00310	.00220	.00500	.63900	.04636
.260	18.960	.90250	.26130	.01430	.93850	-.04613	-.01380	-.00830	.03000	.64400	.04985
.260	21.100	1.00970	.32920	.00650	1.06050	-.05645	-.01370	-.00760	.03100	.64700	.05223
.260	23.210	1.10410	.40880	.00070	1.17580	-.05955	-.00830	-.00540	.02300	.64900	.05765
.260	25.310	1.18390	.48770	.00310	1.27870	-.06535	-.00460	-.00420	.01500	.64800	.06278
	GRADIENT	.04605	-.00023	-.00033	.04691	-.00012	.00001	-.00002	-.00038	-.02439	-.00047

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP039) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-15.000
SPDBRK =	55.000		

RUN NO. 59/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.68900	.14080	.04360	.70140	-.05148	-.00730	.01720	.16300	.62600	.04585
.260	-5.060	.66740	.14520	.06620	.68180	-.04145	.00540	.00480	.06300	.61400	.04079
.260	.000	.66570	.14450	.06630	.67990	-.04156	.01160	-.00500	-.02200	.61200	.04274
.260	5.060	.67540	.14260	.06110	.68880	-.04615	.01760	-.01620	-.11000	.61700	.04432
.260	10.140	.70340	.14590	.04210	.71660	-.05076	.02640	-.02770	-.20600	.62600	.04732
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP060) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	-15.000
SPDBRK =	55.000		

RUN NO. 60/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.130	.94250	.30960	.01470	.99080	-.04979	-.01580	.01220	.17600	.64400	.05171
.260	-5.070	.92310	.30480	.04280	.97100	-.04735	-.00420	-.00130	.08200	.63300	.04769
.260	-.010	.94070	.30170	.04220	.98630	-.05676	.00270	-.01340	-.00400	.63400	.05031
.260	5.060	.95860	.29270	.03890	.99980	-.07196	.01970	-.02050	-.09700	.63500	.04906
.260	10.120	.97680	.29500	.02630	1.01760	-.07645	.01830	-.03480	-.19100	.64000	.05284
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23V7R8X9 (RDP061) (09 JUL 75)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 45.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 5.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 61/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.190	-.19870	.05740	.03540	-.20240	.04272	-.00180	.00190	.00500	.71400	.04824
.260	-2.080	-.10170	.05220	.03510	-.10360	.04853	-.00150	.00180	.00400	.77400	.04731
.260	.010	-.00750	.05060	.03430	-.00750	.05061	-.00150	.00180	.00300	2.33700	.04602
.260	2.090	.09010	.05190	.03380	.09190	.04858	-.00150	.00180	.00200	.51400	.04486
.260	4.190	.18730	.05520	.03260	.19080	.04140	-.00170	.00170	.00200	.58600	.04456
.260	6.300	.28320	.06340	.03250	.28840	.03197	-.00190	.00140	.00300	.60800	.04294
.260	8.390	.38160	.07550	.03250	.38860	.01902	-.00200	.00130	.00300	.61800	.04162
.260	10.500	.48170	.09100	.03300	.49030	.00172	-.00230	.00090	.00400	.62300	.04271
.260	12.630	.58280	.11440	.03270	.59370	-.01581	-.00240	.00100	.00400	.62900	.04289
.260	14.730	.69060	.14500	.02990	.70480	-.03539	-.00280	.00170	.00500	.63400	.04434
.260	16.850	.80710	.18710	.02240	.82670	-.05492	-.00310	.00220	.00500	.63900	.04636
.260	18.960	.90250	.26130	.01430	.93850	-.04613	-.01380	-.00830	.03000	.64400	.04965
.260	21.100	1.00970	.32920	.00650	1.06050	-.05645	-.01370	-.00760	.03100	.64700	.05223
.260	23.210	1.10410	.40880	.00070	1.17580	-.05955	-.00830	-.00540	.02300	.64900	.05765
.260	25.310	1.18390	.48770	.00310	1.27870	-.06535	-.00460	-.00420	.01500	.64800	.06278
	GRADIENT	.04605	-.00023	-.00033	.04691	-.00012	.00001	-.00002	-.00038	-.02439	-.00047

OA21 B17C7 M4F5 W107E23VTR6X9 (RDP062) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 62/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08620	.05480	-.01620	-.09190	.04845	-.00120	.00130	.00400	.58400	.05310
.260	-2.010	.00590	.05200	-.01650	.00360	.05220	-.00130	.00130	.00400	2.29700	.05421
.260	.080	.10090	.05320	-.01760	.10060	.05308	-.00160	.00120	.00400	.71400	.05284
.260	2.180	.19760	.05810	-.01830	.19970	.05057	-.00170	.00110	.00400	.68300	.05076
.260	4.300	.29440	.06570	-.01840	.29850	.04344	-.00180	.00100	.00400	.67200	.04965
.260	6.370	.38880	.07700	-.01810	.39490	.03341	-.00210	.00070	.00500	.66600	.04729
.260	8.480	.48530	.09250	-.01680	.49370	.01993	-.00220	.00060	.00500	.66200	.04627
.260	10.610	.58460	.11280	-.01720	.59540	.00305	-.00240	.00050	.00500	.66000	.04632
.260	12.700	.68620	.13930	-.01800	.70010	-.01503	-.00260	.00120	.00600	.65900	.04693
.260	14.810	.79310	.17310	-.02090	.81100	-.03533	-.00290	.00180	.00500	.65900	.04857
.260	16.940	.91220	.21970	-.02900	.93670	-.05562	-.00280	.00200	.00590	.66100	.05077
.260	19.060	1.00370	.30130	-.03630	1.04718	-.04302	-.01460	-.00970	.03100	.66200	.05318
.260	21.200	1.10650	.37360	-.04300	1.16670	-.05188	-.01360	-.00770	.03000	.66300	.05542
.260	23.310	1.19310	.45910	-.04820	1.27740	-.05050	-.00710	-.00550	.01900	.66300	.06123
.260	25.400	1.26090	.53490	-.04290	1.36840	-.05767	-.00460	-.00560	.01400	.66100	.06598
	GRADIENT	.04565	.00133	-.00030	.04659	-.00056	-.00008	-.00004	-.00000	-.06880	-.00049

OA21 B17C7 H4F5 W107E23V7R6X9 (RDP063) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 15.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 63/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.020	.02100	.05750	-.06800	.01690	.05687	-.00180	.00110	.00500	2.12400	.05641
.260	-1.930	.11400	.05940	-.06800	.11200	.06321	-.00190	.00090	.00500	.87300	.05601
.260	.140	.20770	.06370	-.06900	.20780	.06324	-.00210	.00070	.00600	.77200	.05515
.260	2.250	.30130	.07190	-.06910	.30390	.06001	-.00250	.00080	.00700	.73300	.05279
.260	4.360	.39940	.08260	-.06940	.40450	.05206	-.00280	.00150	.00700	.71300	.05141
.260	6.460	.49150	.09710	-.06760	.49930	.04123	-.00330	.00140	.00900	.69900	.04974
.260	8.550	.58740	.11580	-.06720	.59810	.02717	-.00340	.00130	.00800	.69100	.04875
.260	10.650	.68770	.13970	-.06790	.70170	.01022	-.00380	.00180	.01000	.68500	.04887
.260	12.780	.79330	.17150	-.06940	.81150	-.00832	-.00390	.00170	.00900	.68100	.04900
.260	14.890	.89630	.20930	-.07230	.92000	-.02813	-.00370	.00170	.00800	.67800	.05012
.260	17.020	1.00400	.27670	-.08090	1.04100	-.02947	-.01330	-.00370	.02700	.67800	.05324
.260	19.120	1.08890	.34230	-.08170	1.14100	-.03331	-.01610	-.01290	.03600	.67600	.05611
.260	21.230	1.18310	.42740	-.09040	1.25750	-.03014	-.00900	-.00570	.02100	.67600	.06016
.260	23.330	1.26270	.50560	-.08970	1.35970	-.03600	-.00680	-.00770	.02000	.67400	.06499
.260	25.450	1.31740	.57970	-.07810	1.43860	-.04289	-.00430	-.00870	.01600	.66900	.06947
	GRADIENT	.04509	.00300	-.00019	.04619	-.00081	-.00012	.00003	.00029	-.14121	-.00063

OA21 B17C7 H4F5 W107E23VTR6X9 (RDP064) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9399 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = -5.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPCBRK = 55.000

RUN NO. 64/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-4.310	-.40350	.07220	.12750	-.40780	.04167	-.00150	.00260	.00500	.76400	.04246
.200	-2.220	-.30360	.06040	.12560	-.30570	.04660	-.00150	.00250	.00400	.80100	.04252
.200	-.140	-.20580	.05220	.12510	-.20590	.05175	-.00160	.00250	.00400	.87300	.04196
.200	1.970	-.10720	.04650	.12360	-.10550	.05023	-.00150	.00250	.00300	1.08000	.04176
.200	4.040	-.01550	.04530	.12390	-.01230	.04631	-.00150	.00260	.00300	4.34900	.04006
.200	6.100	.08330	.04670	.12420	.08790	.03747	-.00150	.00240	.00200	.12900	.03667
.200	8.270	.18020	.05190	.12540	.18580	.02544	-.00140	.00240	.00100	.40100	.03613
.200	10.360	.27810	.06170	.12560	.28470	.01069	-.00160	.00200	.00200	.48700	.03764
.200	12.480	.38350	.07760	.12590	.39120	-.00711	-.00180	.00200	.00200	.53100	.03910
.200	14.590	.49310	.10140	.12230	.50260	-.02601	-.00190	.00230	.00200	.56000	.04030
.200	16.700	.60780	.13490	.11760	.62080	-.04540	-.00200	.00260	.00200	.58000	.04205
.200	18.830	.71580	.20100	.10580	.74240	-.04078	-.01050	-.00210	.01800	.59700	.04507
.200	20.960	.82590	.26070	.09770	.86450	-.05239	-.01120	-.00320	.02100	.60800	.04808
.200	23.060	.92700	.32420	.09420	.97990	-.06516	-.01100	-.00360	.02400	.61400	.05027
.200	25.210	1.01570	.40350	.08920	1.09090	-.06771	-.00510	-.00430	.01400	.61900	.05419
	GRADIENT	.04655	-.00324	-.00044	.04745	.00052	.00000	-.00000	-.00024	.35616	-.00027

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP085) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = -15.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPCBRK = 55.000

RUN NO. 65/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.470	-.60060	.10240	.21340	-.60680	.05526	-.00180	.00110	.00600	.77900	.03784
.260	-2.350	-.50130	.06390	.21030	-.50430	.06325	-.00180	.00080	.00600	.80300	.03652
.260	-.270	-.39860	.06980	.20670	-.39890	.06795	-.00170	.00010	.00600	.84000	.03618
.260	1.810	-.29670	.05690	.20450	-.29470	.06837	-.00170	-.00060	.00600	.90500	.03630
.260	3.900	-.19790	.05280	.20190	-.19390	.06623	-.00160	-.00140	.00600	1.03300	.03641
.260	6.040	-.09690	.04980	.20110	-.09110	.05974	-.00150	-.00290	.00600	1.46200	.03515
.260	8.140	.00200	.05000	.20180	.00910	.04921	-.00160	-.00390	.00600	-7.50200	.03419
.260	10.230	.09990	.05320	.20220	.10780	.03463	-.00200	-.00470	.00800	-.04000	.03474
.260	12.370	.20200	.06270	.20280	.21070	.01811	-.00250	-.00460	.00900	.29500	.03571
.260	14.470	.30830	.07910	.20240	.31830	-.00039	-.00260	-.00360	.00900	.41500	.03753
.260	16.630	.41650	.10430	.20170	.42890	-.01926	-.00280	-.00340	.01000	.47600	.03868
.260	18.690	.51340	.15400	.19830	.53570	-.01859	-.00820	-.00130	.01600	.51300	.04059
.260	20.800	.61540	.20170	.19380	.64690	-.02999	-.00930	-.00230	.01900	.53900	.04225
.260	22.910	.71580	.25610	.19160	.75900	-.04283	-.00680	-.00210	.01900	.55600	.04400
.260	25.040	.81700	.32170	.18710	.87640	-.05437	-.00580	-.00380	.01500	.57100	.04673
	GRADIENT	.04832	-.00595	-.00138	.04954	.00130	.00002	-.00031	.00000	.02917	-.00015

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP068) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9399 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = -20.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 66/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.280	-4.500	-.66290	.12000	.24770	-.69030	.06601	-.00190	.00090	.00500	.78100	.03754
.280	-2.400	-.58640	.10110	.24620	-.59010	.07650	-.00180	.00080	.00500	.80300	.03678
.280	-.310	-.48810	.08400	.24360	-.48850	.08140	-.00190	.00080	.00500	.83300	.03609
.280	1.780	-.38890	.07020	.24200	-.38650	.08232	-.00190	.00070	.00500	.88000	.03581
.280	3.880	-.29220	.05990	.24140	-.28750	.07947	-.00180	.00080	.00400	.95800	.03528
.280	5.970	-.19750	.05320	.24290	-.19090	.07357	-.00180	.00080	.00400	1.11700	.03414
.280	8.070	-.10420	.04960	.24450	-.09620	.06399	-.00180	.00070	.00500	1.58500	.03298
.280	10.170	-.01040	.04960	.24680	-.00150	.05093	-.00200	.00100	.00500	-4.42600	.03368
.280	12.280	.08850	.05530	.24820	.09630	.03525	-.00230	.00120	.00600	-.27900	.03467
.280	14.390	.19740	.06900	.24810	.20640	.01775	-.00230	.00170	.00500	.21100	.03650
.280	16.520	.30410	.09010	.24740	.31710	-.00003	-.00270	.00030	.00700	.36200	.03821
.280	18.630	.40640	.12050	.24900	.42360	-.01560	-.00230	-.00040	.00600	.43300	.03947
.280	20.760	.51520	.17990	.23800	.54560	-.01439	-.00900	-.00210	.01800	.48900	.04062
.280	22.870	.61260	.22930	.23610	.65370	-.02683	-.00680	-.00260	.01800	.51600	.04274
.280	24.970	.70230	.28160	.23510	.75570	-.04133	-.00700	-.00370	.01600	.53500	.04445
	GRADIENT	.04684	-.00723	-.00080	.04629	.00157	.00000	-.00001	-.00010	.02061	-.00026

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP087) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.3974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	-40.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 67/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.570	-.78400	.18600	.28120	-.79650	.12497	-.00180	.00250	.00700	.77900	.03812
.260	-2.470	-.67580	.16190	.27120	-.68200	.13264	-.00260	.00180	.00900	.79600	.03887
.260	-.380	-.57020	.13990	.26480	-.57110	.13636	-.00260	.00200	.00900	.82000	.03945
.260	1.730	-.46310	.12240	.25790	-.45920	.13638	-.00240	.00190	.00800	.85600	.03904
.260	3.810	-.36080	.10830	.25160	-.35260	.13213	-.00260	.00190	.00800	.91200	.03853
.260	5.910	-.26460	.09960	.25320	-.25300	.12639	-.00220	.00240	.00600	1.01800	.03717
.260	8.010	-.17550	.09310	.25770	-.16080	11673	-.00190	.00250	.00500	1.23900	.03677
.260	10.130	-.08320	.08930	.26170	-.06620	.10261	-.00130	.00430	.00400	2.10400	.03792
.260	12.230	.01360	.09260	.26350	.03290	.08761	-.00100	.00520	.00200	-2.29500	.03876
.260	14.380	.11410	.10320	.26540	.13620	.07165	-.00120	.00520	.00200	-.06700	.03970
.260	16.440	.23180	.12600	.26140	.25800	.05525	-.00220	.00000	.00400	.27600	.04100
.260	18.560	.32700	.16020	.25360	.36100	.04779	-.00500	.00340	.01100	.38100	.04242
.260	20.680	.40600	.19450	.27040	.45040	.03785	-.00700	.00260	.01500	.42800	.04429
.260	22.800	.49440	.23610	.27380	.54720	.02607	-.00680	.00090	.01500	.46500	.04657
.260	24.890	.57620	.27890	.27590	.64010	.01047	-.00520	-.00250	.01300	.49100	
	GRADIENT	.09054	-.00949	-.00346	.09299	.00086	-.00009	-.00005	.00005	.01554	.00005

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP068) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	5.000
VTLINC =	.000	RUDDER =	.000
SFDBRK =	55.000		

RUN NO. 68/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.110	-.09010	.06050	-.01360	-.09420	.05389	.00050	.02230	-.01500	.59600	.05045
.260	-2.000	.00440	.05840	-.01400	.00240	.05861	.00070	.02260	-.01700	2.60400	.04996
.260	.080	.09910	.05940	-.01450	.09920	.05931	.00090	.02290	-.01900	.70300	.04904
.260	2.160	.19530	.06330	-.01510	.19750	.05593	.00100	.02290	-.02100	.67700	.04829
.260	4.240	.28660	.07100	-.01460	.29120	.04962	.00090	.02260	-.02300	.66800	.04589
.260	6.340	.38130	.08130	-.01410	.38800	.03866	.00100	.02240	-.02500	.66300	.04523
.260	8.490	.47960	.09680	-.01420	.48860	.02491	.00110	.02180	-.02600	.66000	.04400
.260	10.580	.58260	.11690	-.01580	.59420	.00793	.00090	.02190	-.02600	.65900	.04471
.260	12.700	.68400	.14420	-.01650	.69900	-.00967	.00080	.02320	-.02700	.65800	.04451
.260	14.870	.79300	.17940	-.01910	.81250	-.03010	.00060	.02450	-.02900	.65800	.04578
.260	16.930	.90680	.22540	-.02600	.93320	-.04847	.00030	.02480	-.03000	.66000	.04731
.260	19.050	.98360	.30170	-.02890	1.02820	-.03584	-.01220	.00790	.00300	.66900	.05273
.260	21.190	1.08510	.37240	-.03680	1.14640	-.04512	-.01210	.00790	.00200	.66100	.05555
.260	23.270	1.17990	.45750	-.04540	1.26470	-.04587	-.00730	.00990	-.00500	.66300	.06144
.260	25.370	1.23750	.53290	-.05680	1.34650	-.04886	-.00430	.00710	-.00800	.65900	.06583
	GRADIENT	.04529	.00124	-.00015	.04630	-.00054	.00005	.00004	-.00096	-.09445	-.00052

OA21 B17C7 H4F5 W107E23V7R6X9 (RDP069) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 5.000 AILRON = 10.000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 69/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.170	-.19340	.07100	.03660	-.19810	.05670	.00460	.04210	-.03300	.71700	.04768
.260	-2.070	-.09700	.06770	.03750	-.09940	.06418	.00540	.04250	-.03700	.78600	.04635
.260	.020	.00260	.06550	.03480	.00290	.06552	.00590	.04260	-.03900	-3.74300	.04703
.260	2.120	.10500	.06880	.03060	.10750	.06487	.00650	.04110	-.04200	.54400	.04481
.260	4.200	.21480	.07310	.02360	.21950	.05722	.00540	.03780	-.04000	.61000	.04450
.260	6.320	.31600	.08270	.02100	.32320	.04736	.00570	.03660	-.04300	.62500	.04323
.260	8.430	.40700	.09370	.02360	.41640	.03305	.00620	.03860	-.04800	.62800	.04261
.260	10.540	.49600	.10920	.02840	.50770	.01662	.00680	.04150	-.05300	.62900	.04228
.260	12.650	.59630	.13240	.02930	.61090	-.00146	.00730	.04300	-.05700	.63200	.04286
.260	14.740	.69850	.16360	.02970	.71710	-.01956	.00780	.04500	-.06100	.63400	.04302
.260	16.860	.80940	.20420	.02310	.83380	-.03939	.00770	.04630	-.06200	.63900	.04511
.260	18.970	.88590	.27560	.02030	.92740	-.02738	-.00530	.03120	-.03200	.64100	.05063
.260	21.110	.99580	.34280	.01210	1.05240	-.03902	-.00610	.03210	-.03200	.64500	.05366
.260	23.220	1.08310	.42100	.00560	1.16140	-.04029	-.00280	.03040	-.03500	.64800	.05769
.260	25.310	1.14930	.49490	.01190	1.25060	-.04407	-.00080	.02730	-.03500	.64600	.06239
	GRADIENT	.04866	.00025	-.00156	.04979	.00008	.00013	-.00048	-.00091	-.02189	-.00038

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP070) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.3974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = 15.000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 70/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28250	.08240	.07040	-.28790	.06135	.00890	.05960	-.04600	.73900	.04483
.260	-2.130	-.18650	.07710	.07360	-.18920	.07015	.00940	.06010	-.04900	.79300	.04521
.260	-.030	-.09050	.07350	.07320	-.09060	.07324	.01000	.06020	-.05400	.94700	.04346
.260	2.030	.00500	.07160	.07390	.00750	.07160	.01080	.06090	-.05900	-2.93600	.04403
.260	4.150	.10020	.07260	.07370	.10520	.06544	.01140	.06100	-.06200	.39100	.04246
.260	6.240	.19560	.07740	.07350	.20290	.05572	.01220	.06190	-.06700	.51600	.04200
.260	8.340	.29130	.08650	.07340	.30060	.04337	.01290	.06240	-.07100	.56000	.04066
.260	10.450	.39110	.09890	.07380	.40250	.02630	.01360	.06320	-.07600	.58200	.04245
.260	12.560	.49190	.12000	.07340	.50630	.01018	.01450	.06440	-.08200	.59600	.04123
.260	14.690	.60190	.14680	.07100	.61990	-.00675	.01490	.06570	-.08600	.60700	.04218
.260	16.800	.71390	.18610	.06630	.73720	-.02828	.01520	.06660	-.09100	.61600	.04393
.260	18.900	.79240	.23350	.06500	.83180	-.01691	.00180	.05240	-.06000	.62100	.04616
.260	21.010	.89430	.31360	.05690	.94730	-.02800	.00000	.05290	-.05800	.62700	.05151
.260	23.130	.98880	.37760	.05480	1.05770	-.04127	-.00150	.05140	-.05500	.63000	.05514
.260	25.240	1.06180	.44970	.05730	1.15220	-.04616	-.00010	.04540	-.05300	.63100	.05840
	GRADIENT	.04570	-.00117	.00033	.04694	.00046	.00031	.00017	-.00201	-.20961	-.00028

OA21 B17C7 M4F5 W107E23V7R6X9 (RDP071) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = -10.000 AILRON = 15.000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 71/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.380	-.45120	.10040	.14560	-.45760	.06568	.01000	.04980	-.02800	.76600	.03736
.260	-2.260	-.35640	.08950	.14840	-.35970	.07541	.01010	.05080	-.03100	.80100	.03748
.260	-.180	-.26010	.08030	.14840	-.26030	.07960	.01070	.05130	-.03500	.85900	.03650
.260	1.930	-.16360	.07190	.14740	-.16110	.07743	.01130	.05210	-.03900	.98600	.03733
.260	4.020	-.06960	.06760	.14740	-.06470	.07231	.01240	.05330	-.04500	1.48800	.03729
.260	6.120	.02640	.06610	.14650	.03330	.06296	.01320	.05380	-.05000	-.96700	.03640
.260	8.230	.12240	.06820	.14720	.13090	.05005	.01420	.05500	-.05500	.23500	.03718
.260	10.320	.21620	.07620	.14910	.22640	.03627	.01530	.05570	-.05900	.40700	.03658
.260	12.450	.31790	.08980	.15100	.32970	.01914	.01620	.05650	-.06400	.48100	.03808
.260	14.530	.42380	.11190	.14980	.43840	.00195	.01710	.05680	-.06800	.52400	.03844
.260	16.660	.53760	.14290	.14480	.55610	-.01722	.01740	.05860	-.07200	.55300	.04067
.260	18.760	.63000	.20300	.13980	.66180	-.01045	.00720	.05360	-.05400	.57200	.04399
.260	20.900	.73370	.25650	.13480	.77700	-.02205	.00520	.05390	-.05200	.58500	.04766
.260	23.020	.83600	.31540	.13430	.89280	-.03659	.00430	.05560	-.05000	.59400	.05061
.260	25.140	.92080	.38070	.13170	.99530	-.04655	.00290	.05430	-.04700	.60100	.05338
	GRADIENT	.04555	-.00397	.00012	.04690	.00073	.00029	.00040	-.00200	.07751	-.00001

OA21 B17C7 H2M4F5 W107E23V7R6X9 (RDP072) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 72/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.280	-.28650	.06200	.07020	-.29030	.04049	-.00200	.00090	.00800	.73800	.04805
.260	-2.190	-.19300	.05400	.07160	-.19490	.04666	-.00210	.00090	.00600	.78500	.04656
.260	-.080	-.09240	.05020	.07300	-.09240	.05013	-.00220	.00090	.00600	.94000	.04455
.260	1.990	.00300	.04810	.07440	.00460	.04803	-.00210	.00090	.00500	-5.19100	.04418
.260	4.090	.09940	.05060	.07690	.10270	.04340	-.00240	.00080	.00500	.37400	.04227
.260	6.200	.19750	.05520	.07850	.20230	.03355	-.00240	.00070	.00400	.50600	.04141
.260	8.300	.29610	.06370	.08070	.30220	.02026	-.00250	.00060	.00300	.55100	.04146
.260	10.420	.39940	.07750	.08230	.40680	.00402	-.00260	.00020	.00500	.57500	.04162
.260	12.520	.50370	.09740	.08445	.51280	-.01405	-.00360	.00040	.00600	.58900	.04244
.260	14.660	.61450	.12590	.08370	.62640	-.03378	-.00380	.00090	.00600	.60000	.04326
.260	16.770	.73000	.16350	.08050	.74610	-.05412	-.00420	.00180	.00600	.61000	.04571
.260	18.910	.83640	.23720	.07100	.86810	-.04663	-.01390	-.00550	.02500	.61900	.04731
.260	21.020	.94680	.30140	.06450	.99190	-.05833	-.01350	-.00580	.02600	.62500	.05061
.260	23.160	1.05340	.38130	.05760	1.11840	-.06386	-.00880	-.00420	.02100	.63000	.05558
.260	25.310	1.15060	.46270	.05480	1.23810	-.07382	-.00640	-.00320	.01500	.63300	.06061
	GRADIENT	.04626	-.0013[illegible]	.00077	.04711	.00034	-.00004	-.00001	-.00014	-.31931	-.00167

OA21 B17C7 H2M4F5 W107E23V7R6X9 (RDP073) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 73/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.06990	.03690	.05810	-.06990	.03681	-.01950	.00380	.19600	.95500	.04618
.260	-5.060	-.08470	.04900	.07080	-.08480	.04896	-.00990	.00220	.09900	.95700	.04369
.260	.000	-.09100	.05090	.07440	-.09110	.05079	-.00100	.00080	.00500	.95000	.04417
.260	5.040	-.08650	.04350	.06700	-.08660	.04345	.00530	.00010	-.08700	.93400	.04851
.260	10.130	-.07360	.03250	.05685	-.07370	.03243	.01540	-.00140	-.18700	.93300	.05[illegible]22
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M2M4F5 W107E23V7R6X9 (RDP074) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 74/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.41950	.07040	.06670	.42530	-.00660	-.02270	.02110	.19600	.59200	.04329
.260	-5.070	.40430	.07490	.07620	.41120	.00060	-.01150	.01030	.09800	.58100	.04176
.260	.000	.39880	.07820	.08270	.40640	.00488	-.00290	.00040	.00500	.57400	.04117
.260	5.050	.40820	.07050	.07130	.41420	-.00431	.00470	-.00820	-.08500	.58600	.04724
.260	10.120	.42220	.06290	.05860	.42670	-.01433	.01490	-.01820	-.18300	.59900	.05268
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M2M4F5 W107E23V7R6X9 (RDP075) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 75/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.69130	.14400	.06150	.70450	-.04876	-.02190	.02590	.19400	.61700	.04429
.260	-5.050	.67980	.14560	.07490	.69390	-.04388	-.00950	.01320	.09100	.61000	.04320
.260	.010	.67390	.14500	.08210	.68800	-.04311	-.00400	.00180	.00700	.60500	.04388
.260	5.060	.68520	.14120	.07060	.69780	-.04982	.00070	-.01020	-.07600	.61200	.04844
.260	10.130	.70720	.14340	.05260	.71960	-.05380	.01090	-.02320	-.17600	.62200	.05131
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M2M4F5 W107E23V7R6X9 (RDP076) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	55.000	CANARD =	.000

RUN NO. 76/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.94740	.31310	.03670	.99670	-.04837	-.02920	.01970	.20700	.63600	.05212
.260	-5.070	.93990	.30820	.05490	.98780	-.05026	-.01880	.00700	.11100	.62900	.05058
.260	.000	.94520	.30200	.06460	.99000	-.05818	-.01330	-.00590	.02600	.62300	.05021
.260	5.040	.98980	.29540	.05450	1.01110	-.07345	-.00730	-.01380	-.06300	.62900	.05314
.260	10.120	.99430	.29430	.03650	1.03360	-.08356	.00140	-.02730	-.16600	.63600	.05902
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23V7R6X9 (RDP077) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.7299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	55.000		

RUN NO. 77/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.210	-.24570	.05960	.07180	-.24940	.04149	-.00230	.00090	.00600	.75500	.02258
.260	-2.100	-.14880	.05400	.07280	-.15060	.04652	-.00250	.00100	.00600	.82700	.02276
.260	-.010	-.05350	.05030	.07310	-.05360	.05031	-.00260	.00090	.00600	1.15100	.02360
.260	2.080	.04190	.05020	.07270	.04370	.04879	-.00260	.00110	.00600	.03800	.02316
.260	4.180	.13800	.05270	.07260	.14150	.04253	-.00250	.00080	.00500	.46000	.02282
.260	6.290	.23540	.05880	.07240	.24040	.03268	-.00260	.00060	.00400	.53800	.02281
.260	8.390	.33460	.06900	.07200	.34110	.01947	-.00280	.00050	.00500	.57200	.02295
.260	10.460	.43460	.08340	.07200	.44250	.00309	-.00290	.00030	.00500	.58900	.02369
.260	12.610	.53940	.10580	.07230	.54950	-.01454	-.00340	.00050	.00600	.60100	.02400
.260	14.720	.65180	.13650	.06910	.66510	-.03365	-.00370	.00120	.00700	.61100	.02468
.260	16.850	.76340	.17700	.06420	.78190	-.05190	-.00380	.00150	.00700	.61900	.02504
.260	18.960	.86540	.25370	.04930	.90090	-.04125	-.01540	-.00800	.03300	.62900	.03056
.260	21.090	.96960	.31860	.04210	1.01930	-.05157	-.01520	-.00820	.03500	.63400	.03224
.260	23.200	1.06040	.39790	.03630	1.13140	-.05208	-.00970	-.00650	.02700	.63700	.03557
.260	25.310	1.14180	.47570	.03630	1.23560	-.05826	-.00570	-.00370	.01800	.63600	.04023
	GRADIENT	.04571	-.00084	.00007	.04657	.00011	-.00002	-.00000	-.00010	-.06370	.00004

OA21 B17C7 F5 W107E23V7R6X9 (RDP078) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 78/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	-.02860	.03480	.05270	-.02860	.03489	-.02260	.00690	.19700	1.32600	.02625
.260	-5.060	-.04450	.04720	.06800	-.04450	.04721	-.01130	.00490	.09900	1.21200	.02381
.260	-.020	-.05370	.05100	.07260	-.05370	.05105	-.00240	.00100	.00600	1.14700	.02320
.260	5.040	-.05000	.04520	.06720	-.05000	.04523	.00580	-.00220	-.08500	1.14400	.02328
.260	10.110	-.03410	.03200	.05440	-.03400	.03207	.01690	-.00620	-.18600	1.23700	.02628
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00

OA21 B17C7 F5 W107E23V7R6X9 (RDP079) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000

RUN NO. 79/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.45190	.07630	.05610	.45830	-.00736	-.02530	.02480	.19500	.60400	.02502
.260	-5.060	.44080	.08240	.06900	.44850	.00071	-.01290	.01230	.09700	.59300	.02291
.260	.000	.43640	.08360	.07220	.44440	.00271	-.00290	.00060	.00500	.59000	.02434
.260	5.050	.44240	.08030	.06520	.44960	-.00158	.00570	-.01030	-.08200	.59600	.02498
.260	10.110	.45400	.07330	.05380	.45980	-.01064	.01740	-.02170	-.18200	.60600	.02796
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 F5 W107E23V7R6X9 (RDP080) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	15.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 80/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.72550	.15090	.04070	.73920	-.05224	-.01960	.02610	.17900	.62900	.02982
.260	-5.060	.71310	.15620	.06060	.72870	-.04365	-.01150	.01500	.09200	.61900	.02457
.260	.000	.71060	.15690	.06600	.72650	-.04240	-.00360	.00200	.00600	.61800	.02461
.260	5.040	.71580	.15420	.06100	.73050	-.04638	.00330	-.01260	-.07600	.61900	.02646
.260	10.110	.73810	.15260	.03360	.75170	-.05423	.00930	-.02560	-.16000	.63300	.03265
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23V7R6X9 (RDP081) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

ALPHA =	20.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000		

RUN NO. 81/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.94580	.32030	.01640	.99770	-.04102	-.02990	.01650	.20500	.64300	.03201
.260	-5.070	.94870	.32430	.03600	1.00190	-.03877	-.02260	.00380	.12200	.63600	.03048
.260	.000	.96950	.31990	.04200	1.01970	-.05066	-.01550	-.00770	.03700	.63400	.03169
.260	5.050	.99430	.31220	.03820	1.04000	-.06718	-.00500	-.01590	-.05900	.63600	.03215
.260	10.110	1.00950	.30830	.01900	1.05260	-.07626	.00710	-.03230	-.15700	.64300	.03099
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23 X9 (RDP082) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 82/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.150	-.21410	.02790	.03450	-.21560	.01236	.00000	.00030	.00100	.70800	.01529
.260	-2.090	-.11550	.02180	.03420	-.11630	.01759	.00000	.00010	.00000	.75800	.01579
.260	.000	-.01720	.01910	.03460	-.01720	.01918	.00000	.00010	.00000	1.36900	.01570
.260	2.090	.07950	.01960	.03500	.08020	.01874	.00000	.00000	.00000	.48900	.01576
.260	4.190	.17680	.02380	.03550	.17810	.01082	.00000	.00000	.00000	.57600	.01526
.260	6.310	.27510	.03060	.03590	.27680	.00025	.00000	-.00010	.00000	.60200	.01590
.260	8.400	.37340	.04250	.03640	.37560	-.01246	.00000	-.00020	.00000	.61400	.01594
.260	10.500	.47230	.05920	.03740	.47510	-.02785	-.00020	-.00040	.00000	.62000	.01630
.260	12.620	.57450	.08300	.03810	.57880	-.04458	-.00070	.00000	.00100	.62500	.01645
.260	14.720	.68480	.11480	.03590	.69150	-.06296	-.00100	.00080	.00100	.63000	.01740
.260	16.880	.80050	.15790	.02970	.81190	-.08107	-.00090	.00040	.00000	.63600	.01647
.260	18.960	.90040	.23770	.01370	.92880	-.06786	-.01270	-.00970	.02800	.64400	.02388
.260	21.090	1.00710	.35490	.00690	1.04930	-.07803	-.01250	-.00930	.02900	.64700	.02634
.260	23.200	1.09430	.38660	.00070	1.15810	-.07591	-.00550	-.00720	.01700	.64900	.02980
.260	25.320	1.17440	.46470	.00210	1.26030	-.08225	-.00250	-.00410	.00800	.64900	.03401
	GRADIENT	.04683	-.00050	.00013	.04717	-.00019	.00000	-.00003	-.00010	-.02570	-.00000

OA21 B17C7 F5 W107E23 X9 (RDP083) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 83/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	-.00610	.01450	.02630	-.00610	.01458	.02660	-.01120	.06700	2.21600	.02120
.260	-5.070	-.01240	.01870	.03160	-.01240	.01878	.01350	-.00550	.03400	1.58600	.01666
.260	.000	-.01700	.01960	.03440	-.01700	.01961	.00020	.00000	.00100	1.39400	.01527
.260	5.030	-.01500	.01800	.03290	-.01500	.01802	-.01320	.00580	-.03300	1.45600	.01711
.260	10.110	-.00850	.01320	.02810	-.00850	.01324	-.02640	.01160	-.06600	1.85900	.02335
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23 X9 (RDP084) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000

RUN NO. 84/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.280	-10.110	.47490	.06140	.03010	.47810	-.02616	.02540	.00600	.06400	.62600	.02313
.280	-5.050	.47200	.06080	.03540	.47520	-.02627	.01250	.00290	.03300	.62200	.01712
.280	-.020	.47190	.05990	.03730	.47500	-.02714	-.00010	-.00030	.00000	.62000	.01613
.280	5.030	.47650	.05950	.03430	.47940	-.02835	-.01260	-.00350	-.03200	.62300	.01869
.280	10.100	.47960	.05960	.03030	.48240	-.02885	-.02620	-.00670	-.06000	.62600	.02421
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23 X9 (RDP085) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000

RUN NO. 85/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.280	-10.120	.74730	.14150	.01990	.75760	-.06728	.02620	.01090	.05400	.64000	.02620
.280	-5.060	.74690	.13890	.02820	.75650	-.06960	.01420	.00570	.02600	.63600	.02026
.280	.000	.74580	.13620	.03140	.75470	-.07197	-.00050	.00000	.00000	.63400	.01792
.280	5.030	.75070	.13680	.02820	.75960	-.07286	-.01610	-.00550	-.02400	.63600	.02218
.280	10.090	.76170	.14510	.01560	.77240	-.06778	-.03290	-.01050	-.04400	.64200	.02632
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 W107E23 X9 (RDP086) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 86/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.95930	.31340	-.00190	1.00790	-.05198	.02430	-.00420	.06800	.65000	.03095
.260	-5.090	.97520	.31010	.00370	1.02150	-.06123	.00390	-.00740	.05500	.64800	.02707
.260	.000	1.00510	.30590	.00680	1.04780	-.07645	-.01220	-.00920	.02800	.64700	.02574
.260	5.030	1.02980	.30040	.00560	1.06880	-.09089	-.02520	-.00640	-.00500	.64700	.02739
.260	10.110	1.02300	.30160	.00160	1.06300	-.08721	-.04060	-.01460	-.02800	.64900	.03126
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23 X9 (RDP087) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 87/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.230	-.25240	.03060	.03860	-.25390	.01188	.00000	.00010	.00100	.70500	.03064
.260	-2.110	-.15340	.02290	.03760	-.15420	.01731	.00000	.00010	.00000	.73900	.03069
.260	-.040	-.05630	.01950	.03750	-.05630	.01951	.00000	.00010	.00000	.89500	.02978
.260	2.050	.04190	.01890	.03780	.04260	.01742	.00000	.00020	.00000	.32300	.02970
.260	4.170	.13860	.02150	.03780	.13980	.01137	.00010	.00010	-.00100	.55000	.02958
.260	6.260	.23660	.02830	.03810	.23850	.00231	.00000	-.00020	.00000	.59000	.02846
.260	8.380	.33540	.03800	.03840	.33730	-.01124	.00000	-.00030	.00000	.60700	.02884
.260	10.480	.43710	.05320	.03870	.43950	-.02717	.00000	-.00060	.00000	.61700	.02990
.260	12.600	.54120	.07600	.03790	.54480	-.04391	-.00020	-.00060	.00000	.62400	.03072
.260	14.720	.65290	.10650	.03480	.65860	-.06293	-.00040	.00000	.00000	.63000	.03244
.260	16.840	.76850	.14720	.02930	.77820	-.08177	-.00070	.00030	.00000	.63500	.03431
.260	18.950	.86860	.22160	.01720	.89350	-.07248	-.01110	-.00730	.02200	.64200	.03730
.260	21.080	.97770	.29790	.00910	1.01500	-.08307	-.01110	-.00770	.02300	.64600	.03994
.260	23.200	1.07940	.36740	.00130	1.13690	-.08752	-.00620	-.00630	.01600	.64900	.04330
.260	25.310	1.16360	.44800	.00110	1.24340	-.09258	-.00230	-.00320	.00600	.64900	.04998
	GRADIENT	.04663	-.00106	-.00007	.04696	-.00004	.00001	.00000	-.00019	-.03457	-.00017

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A

OA21 B17C7 M4F5 W107E23 X9 (RDP088) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000

RUN NO. 88/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	-.03690	.01260	.02640	-.03690	.01263	.02160	-.01460	.09000	.91300	.03669
.260	-5.070	-.04710	.01850	.03440	-.04710	.01853	.01080	-.00730	.04600	.91800	.03123
.260	.000	-.05410	.01950	.03750	-.05410	.01950	.00010	.00010	.00000	.90500	.03019
.260	5.040	-.05120	.01730	.03530	-.05120	.01736	-.01070	.00750	-.04600	.90300	.03313
.260	10.110	-.03820	.01170	.02850	-.03820	.01174	-.02180	.01490	-.09100	.92300	.03836
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23 X9 (RDP089) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000

RUN NO. 89/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	.44980	.05360	.02790	.45210	-.02916	.02060	.00130	.09000	.62700	.03956
.260	-5.060	.44000	.05500	.03520	.44270	-.02594	.00940	.00000	.04900	.62000	.03213
.260	.000	.43700	.05350	.03840	.43940	-.02690	.00000	-.00050	.00000	.61700	.03026
.260	5.030	.43900	.05260	.03600	.44120	-.02816	-.00940	-.00090	-.04800	.61900	.03448
.260	10.110	.45180	.05230	.02850	.45380	-.03079	-.02060	-.00230	-.09000	.62600	.04083
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23 X9 (RDP090) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 90/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.71670	.13010	.01900	.72500	-.06959	.02230	.00730	.08500	.64000	.04546
.260	-5.060	.70770	.12620	.03010	.71590	-.06896	.01030	.00350	.04600	.63400	.03511
.260	.000	.71070	.12630	.03190	.71620	-.07160	-.00050	.00070	.00000	.63300	.03287
.260	5.030	.71510	.12630	.02980	.72250	-.07305	-.01190	-.00310	-.04300	.63400	.03710
.260	10.120	.73510	.13420	.01320	.74390	-.07089	-.02560	-.00600	-.08000	.64300	.04772
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 M4F5 W107E23 X9 (RDP091) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000

RUN NO. 91/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.96610	.30190	-.00960	1.01010	-.06511	.01610	-.00030	.09700	.65300	.05431
.260	-5.060	.96210	.29350	.00730	1.00340	-.07172	-.00040	-.00360	.07000	.64700	.04263
.260	.000	.97910	.28930	.00820	1.01760	-.08208	-.01120	-.00750	.02400	.64600	.04028
.260	5.040	.99940	.28270	.00800	1.03420	-.09574	-.01960	-.00670	-.03000	.64600	.04331
.260	10.120	1.01770	.28650	-.00350	1.05260	-.09896	-.03410	-.01180	-.06400	.65100	.05650
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 X9 (RDP092) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000

RUN NO. 92/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.070	-.04930	.01500	-.00590	-.05020	.01155	.00030	.00000	.00000	.60600	.02060
.260	-2.030	-.03710	.01340	.00320	-.03760	.01214	.00030	.00000	.00000	.68100	.01985
.260	-.020	-.02490	.01230	.01250	-.02490	.01229	.00030	.00000	.00000	.83500	.01982
.260	1.970	-.01330	.01150	.02150	-.01290	.01196	.00020	.00000	.00000	1.26100	.02060
.260	4.000	-.00180	.01160	.03160	-.00100	.01178	.00010	.00000	.00000	11.53300	.02078
.260	6.020	.00950	.01260	.04130	.00980	.01172	.00020	.00000	.00000	-.90200	.02047
.260	8.040	.02010	.01400	.05150	.02190	.01104	.00010	.00000	-.00100	-.21300	.02049
.260	10.050	.03240	.01540	.06060	.03460	.00950	.00000	.00000	-.00100	.00400	.02176
.260	12.080	.04810	.01780	.06830	.05080	.00739	.00010	.00010	-.00100	.15400	.02373
.260	14.110	.06520	.02150	.07550	.06850	.00500	.00010	.00010	-.00100	.24300	.02618
.260	16.140	.08340	.02640	.08150	.08740	.00217	.00010	.00020	-.00200	.30600	.02932
.260	18.160	.10360	.03310	.08720	.10880	-.00001	.00000	.00010	-.00200	.35400	.03213
.260	20.190	.12260	.04010	.09290	.12890	-.00463	.00010	.00020	-.00200	.38400	.03533
.260	22.210	.14270	.04970	.09840	.15090	-.00795	.00010	.00020	-.00300	.40900	.03761
.260	24.270	.16360	.05970	.10380	.17370	-.01276	.00010	.00020	-.00300	.42900	.04066
	GRADIENT	.00590	-.00043	.00463	.00611	.00001	-.00002	.00000	.00000	1.11428	.00006

OA21 B17C7 F5 X9 (RDP093) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000 BDFLAP = -10.000

RUN NO. 93/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	-.02460	.01070	.01160	-.02460	.01073	.02590	-.00410	.06100	.62500	.02491
.260	-5.070	-.02550	.01350	.01260	-.02550	.01357	.01310	-.00180	.03000	.83100	.01989
.260	-.010	-.02590	.01290	.01310	-.02590	.01297	.00000	.00000	.00100	.83600	.01929
.260	5.030	-.02680	.01180	.01420	-.02680	.01182	-.01350	.00170	-.02600	.84400	.02079
.260	10.100	-.02530	.00980	.01420	-.02530	.00984	-.02640	.00390	-.05900	.85700	.02501
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

0A21 B17C7 F5 X9 (RDP094) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -18.000

RUN NO. 94/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.04610	.01580	.05620	.04810	.00752	.02560	-.00450	.06600	.22000	.02737
.260	-5.050	.03640	.01720	.05880	.03880	.01063	.01270	-.00210	.03200	.09200	.02458
.260	.010	.03310	.01650	.06110	.03550	.01048	-.00010	.00000	.00100	.01600	.02177
.260	5.040	.03570	.01470	.05950	.03770	.00824	-.01390	.00210	-.02800	.06800	.02506
.260	10.100	.04670	.01450	.05680	.04850	.00615	-.02680	.00460	-.06500	.21800	.02711
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

0A21 B17C7 F5 X9 (RDP095) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -18.000

RUN NO. 95/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.09020	.02530	.07280	.09370	.00087	.02540	-.00540	.06700	.36300	.03315
.260	-5.050	.07710	.02540	.07560	.08110	.00439	.01290	-.00250	.02900	.30600	.02935
.260	.000	.07340	.02370	.07860	.07710	.00379	.00020	.00000	-.00100	.27400	.02776
.260	5.050	.07780	.02270	.07610	.08100	.00161	-.01280	.00270	-.03200	.30400	.03207
.260	10.110	.09190	.02330	.07260	.09480	-.00145	-.02590	.00580	-.07200	.36800	.03567
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 F5 X9 (RDP098) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = -18.000

RUN NO. 96/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.14070	.04440	.08650	.14740	-.00690	.02460	-.00610	.06900	.42600	.03709
.260	-5.060	.12820	.04210	.09150	.13480	-.00469	.01280	-.00270	.02600	.40000	.03627
.260	.000	.12320	.04080	.09310	.12970	-.00418	.00000	.00010	-.00100	.38500	.03561
.260	5.020	.12880	.03880	.09080	.13430	-.00806	-.01230	.00310	-.03200	.40000	.03970
.260	10.110	.14570	.04310	.08730	.15170	-.00984	-.02510	.00660	-.07300	.43700	.04017
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 X9 (RDP097) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 97/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-3.990	-.02780	.01160	-.02240	-.02850	.00965	.00050	.00000	.00000	.36100	.02126
.260	-1.990	-.01330	.01000	-.01410	-.01360	.00957	.00060	.00000	.00000	.27000	.02108
.260	.020	-.00210	.00920	-.00440	-.00210	.00923	.00050	.00000	-.00100	-.10500	.02134
.260	2.020	.00890	.00950	.00520	.00930	.00921	.00060	.00000	-.00100	.44100	.02188
.260	4.040	.02030	.01060	.01460	.02100	.00916	.00050	.00000	.00000	.39200	.02291
.260	6.070	.03220	.01170	.02440	.03330	.00827	.00040	.00000	-.00100	.37900	.02437
.260	8.070	.04430	.01380	.03410	.04600	.00741	.00040	.00000	-.00100	.37600	.02650
.260	10.090	.05790	.01650	.04250	.05990	.00612	.00030	.00000	-.00100	.38800	.02925
.260	12.140	.07150	.02040	.05060	.07430	.00496	.00020	.00000	-.00100	.39300	.03086
.260	14.140	.08780	.02470	.05870	.09120	.00255	.00030	.00000	-.00100	.41200	.03388
.260	16.190	.10500	.03010	.06620	.10920	-.00038	.00040	.00000	-.00200	.[illegible]600	.03672
.260	18.210	.12270	.03690	.07360	.12810	-.00327	.00030	.00000	-.00200	.[illegible]800	.03974
.260	20.230	.13940	.04450	.08080	.14620	-.00644	.00010	.00000	-.00200	.44600	.04235
.260	22.280	.15760	.05400	.08820	.16630	-.00973	.00000	.00010	-.00100	.45400	.04468
.260	24.300	.17490	.06450	.09520	.18590	-.01319	.00000	.00010	-.00100	.46100	.04678
	GRADIENT	.00590	-.00012	.00465	.00607	-.00007	-.00000	.00000	-.00005	.01161	.00020

OA21 B17C7 X9 (RDP098) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 98/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	-.00320	.00640	-.00440	-.00320	.00645	.02610	-.00370	.06200	.14900	.03071
.260	-5.060	-.00370	.00930	-.00450	-.00370	.00934	.01350	-.00170	.02900	.20000	.02449
.260	-.020	-.00140	.00860	-.00550	-.00140	.00862	.00090	-.00010	-.00100	-.76200	.02310
.260	5.040	-.00340	.00710	-.00480	-.00340	.00718	-.01210	.00140	-.02900	.13500	.02774
.260	10.100	-.00100	.00430	-.00500	-.00100	.00438	-.02490	.00340	-.06200	-1.06200	.03388
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 X9 (RDP099) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 10.000

RUN NO. 99/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	.07090	.01650	.03800	.07270	.00579	.02540	-.00450	.06700	.45700	.03492
.260	-5.070	.06200	.01710	.03950	.06410	.00597	.01290	-.00220	.03100	.42300	.03267
.260	.000	.06190	.01740	.01940	.06400	.00628	.00030	.00000	.00000	.42200	.03135
.260	5.030	.06270	.01620	.03860	.06460	.00494	-.01220	.00210	-.03200	.42900	.03371
.260	10.100	.07350	.01570	.03620	.07520	.00253	-.02510	.00450	-.07000	.47200	.03742
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 X9 (RDP100) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 15.000

RUN NO. 100/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.110	.11460	.02940	.05390	.11830	-.00153	.02520	-.00540	.06900	.48200	.04215
.260	-5.050	.10510	.02990	.05580	.10920	.00145	.01290	-.00250	.03000	.46100	.03917
.260	.000	.10170	.02940	.05750	.10590	.00181	.00060	.00000	.00000	.44900	.03723
.260	5.040	.10460	.02880	.05590	.10850	.00043	-.01230	.00260	-.03200	.46000	.04004
.260	10.100	.11570	.02800	.05420	.11910	-.00317	-.02500	.00560	-.07300	.48200	.04187
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 X9 (RDP101) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 101/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	.16500	.05090	.07000	.17240	-.00921	.02490	-.00620	.07000	.50000	.04592
.260	-5.040	.14850	.04840	.07460	.15610	-.00588	.01260	-.00280	.02800	.47300	.04441
.260	.010	.14670	.04800	.07370	.15430	-.00561	.00060	.00000	-.00200	.47400	.04579
.260	5.060	.14930	.04660	.07410	.15620	-.00781	-.01170	.00310	-.03300	.47500	.04940
.260	10.140	.16650	.05060	.07020	.17370	-.01005	-.02450	.00650	-.07500	.50100	.04916
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17 X9 (RDP102) (09 JUL 75)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000

RUN NO. 102/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.050	-.02960	.01080	-.02330	-.03030	.00876	.00090	.00000	-.00100	.36700	.02214
.260	-2.020	-.01530	.00960	-.01480	-.01570	.00913	.00030	.00000	.00000	.35100	.02169
.260	-.010	-.00290	.00900	-.00580	-.00290	.00905	.00000	.00000	.00000	-.06800	.02154
.260	1.980	.00930	.00960	.00400	.00960	.00930	.00000	.00000	.00000	.49300	.02116
.260	3.990	.01960	.00980	.01390	.02020	.00844	-.00050	-.00010	.00200	.39500	.02284
.260	6.020	.03060	.01160	.02410	.03160	.00838	-.00060	.00000	.00200	.36900	.02285
.260	8.040	.04310	.01290	.03340	.04450	.00675	-.00050	.00000	.00200	.37400	.02660
.260	10.070	.05570	.01600	.04210	.05760	.00605	-.00080	.00000	.00200	.38100	.02854
.260	12.100	.06960	.01960	.05010	.07220	.00456	-.00100	.00000	.00200	.39400	.03098
.260	14.130	.08540	.02280	.05810	.08840	.00131	-.00090	.00000	.00200	.41700	.03513
.260	16.140	.10090	.02920	.06540	.10500	.00004	-.00090	.00000	.00200	.42000	.03652
.260	18.160	.11800	.03490	.07230	.12300	-.00356	-.00100	.00000	.00100	.43300	.03981
.260	20.190	.13550	.04320	.07910	.14210	-.00620	-.00090	.00000	.00100	.44400	.04162
.260	22.230	.15340	.05200	.08610	.16160	-.00986	-.00100	.00000	.00100	.45300	.04436
.260	24.260	.17190	.06200	.09330	.18220	-.01407	-.00080	.00000	.00000	.46100	.04675
	GRADIENT	.00613	-.00010	.00464	.00629	-.00002	-.00015	-.00002	.00030	.01218	.00004

OA21 B17 X9 (RDP103) (09 JUL 75)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = .000

RUN NO. 103/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.090	-.00440	.00640	-.00590	-.00440	.00643	.02520	-.00310	.06200	.16000	.03012
.260	-5.040	-.00560	.00870	-.00500	-.00560	.00872	.01290	-.00170	.03000	.32300	.02457
.260	.000	-.00310	.00950	-.00560	-.00310	.00939	.00030	.00000	.00000	-.00400	.01955
.260	5.070	-.00690	.00650	-.00380	-.00690	.00657	-.01220	.00170	-.02900	.44600	.02620
.260	10.120	-.00540	.00320	-.00360	-.00540	.00324	-.02480	.00370	-.06200	.40200	.03267
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17 X9 (RDP104) (09 JUL 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

ALPHA = 10.000

RUN NO. 104/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.090	.06490	.01380	.03920	.06630	.00221	.02520	-.00440	.06800	.43200	.03170
.260	-5.030	.05620	.01500	.04140	.05790	.00498	.01260	-.00200	.03200	.38600	.02910
.260	.000	.05520	.01510	.04180	.05700	.00520	.00010	.00000	.00000	.37900	.02741
.260	5.060	.05620	.01350	.04200	.05770	.00350	-.01260	.00230	-.03200	.38200	.03002
.260	10.140	.06640	.01270	.03990	.06700	.00091	-.02510	.00470	-.07000	.43200	.03294
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17 X9 (RDP105) (09 JUL 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

ALPHA = 15.000

RUN NO. 105/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.100	.10510	.02520	.05830	.10800	-.00308	.02450	-.00540	.07500	.4*100	.03751
.260	-5.030	.09520	.02550	.06010	.09850	-.00026	.01240	-.00250	.03400	.42500	.03595
.260	.010	.09220	.02580	.06110	.09570	.00084	.00000	.00000	.00000	.41400	.03596
.260	5.060	.09480	.02370	.06020	.09770	-.00181	-.01250	.00280	-.03300	.42300	.03736
.260	10.140	.10670	.02390	.05850	.10920	-.00480	-.02490	.00590	-.07700	.45200	.03907
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17 X9 (RDP106) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

ALPHA = 20.000

RUN NO. 106/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-10.120	.15520	.04600	.07410	.16150	-.01048	.02420	-.00630	.07800	.48000	.04198
.260	-5.060	.13890	.04290	.07820	.14520	-.00768	.01240	-.00270	.03200	.45100	.04150
.260	-.010	.13520	.04200	.07850	.14140	-.00721	.00010	.00000	.00000	.44500	.04155
.260	5.040	.13820	.04150	.07820	.14410	-.00881	-.01180	.00320	-.03600	.45000	.04242
.260	10.110	.15440	.04440	.07490	.16030	-.01164	-.02420	.00680	-.08200	.47700	.04347
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OA21 B17C7 H2M4F3 W107E23V7R6X9 (RDP107) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 107/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.230	-.28910	.06250	.07240	-.29290	.04102	-.00340	.00000	.01600	.74000	.04620
.260	-2.130	-.19130	.05500	.07380	-.19330	.04784	-.00340	.00000	.01700	.79000	.04490
.260	-.050	-.09470	.04970	.07560	-.09470	.04967	-.00310	.00000	.01300	.94300	.04406
.260	2.030	-.00100	.04880	.07750	.00060	.04881	-.00310	.00010	.01400	22.23000	.04237
.260	4.120	.09370	.04980	.07950	.09710	.04297	-.00310	.00000	.01400	.34800	.04144
.260	6.260	.19190	.05510	.08140	.19680	.03383	-.00330	.00000	.01600	.49700	.04009
.260	8.340	.28850	.06290	.08360	.29460	.02037	-.00350	.00000	.01700	.54500	.03986
.260	10.410	.38680	.07570	.08570	.39410	.00460	-.00410	-.00050	.01900	.56900	.03985
.260	12.570	.49680	.09650	.08680	.50590	-.01394	-.00570	-.00060	.03000	.58600	.04105
.260	14.660	.60530	.12460	.08690	.61710	-.03270	-.00490	.00000	.02100	.59700	.04215
.260	16.790	.72190	.16320	.08390	.73820	-.05229	-.00440	.00010	.02100	.60700	.04373
.260	18.940	.83000	.23460	.07460	.86120	-.04748	-.01550	-.00640	.05900	.61700	.04755
.260	21.050	.93640	.29630	.06920	.98040	-.05984	-.01340	-.00620	.03800	.62300	.05067
.260	23.180	1.03430	.37410	.06200	1.09800	-.06325	-.00800	-.00570	.03400	.62900	.05558
.260	25.300	1.11480	.44910	.06380	1.19980	-.07039	-.00430	-.00570	.02300	.63000	.06014
	GRADIENT	.04582	-.00152	.00086	.04069	.00023	.00004	.00000	-.00034	.98826	-.00058

OA21 B17C7 H2H4F5 W107E23V7R6X9 (RDP108) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	10.000

RUN NO. 108/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28620	.06220	.07630	-.29010	.04068	-.00210	.00050	.00700	.74600	.04669
.260	-2.130	-.18860	.05460	.07770	-.19050	.04760	-.00210	.00060	.00700	.79900	.04558
.260	-.030	-.09110	.04850	.07860	-.09120	.04852	-.00220	.00050	.00600	.96600	.04613
.260	2.050	.00500	.04750	.08070	.00660	.04715	-.00220	.00060	.00600	-3.78900	.04518
.260	4.150	.09950	.04930	.08280	.10260	.04207	-.00220	.00070	.00600	.35200	.04371
.260	6.250	.19450	.05370	.08630	.19920	.03225	-.00220	.00060	.00600	.49000	.04350
.260	8.350	.29460	.06290	.08940	.30060	.01945	-.00240	.00050	.00700	.54000	.04268
.260	10.460	.39600	.07730	.09140	.40340	.00418	-.00250	.00030	.00800	.56600	.04268
.260	12.590	.50310	.09600	.09260	.51240	-.01402	-.00270	.00030	.00900	.58300	.04398
.260	14.720	.61560	.12720	.09310	.62780	-.03339	-.00310	.00060	.01000	.59500	.04565
.260	16.820	.72910	.16760	.08780	.74640	-.05058	-.00310	.00090	.00900	.60600	.04554
.260	18.960	.83470	.23800	.07880	.86670	-.04611	-.01210	-.00450	.02600	.61600	.04831
.260	21.060	.94260	.30070	.07330	.98770	-.05854	-.01240	-.00510	.02600	.62200	.05111
.260	23.190	1.03930	.37610	.06400	1.10350	-.06357	-.00940	-.00470	.02300	.62800	.05498
.260	25.310	1.12640	.45410	.05960	1.21250	-.07120	-.00650	-.00570	.01800	.63100	.06002
	GRADIENT	.04602	-.00156	.00076	.04688	.00009	-.00001	.00002	-.00014	-.25579	-.00030

OA21 B17C7 H2W4F5 W107E23V7R6X9 (RDP109) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = 20.000

RUN NO. 109/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28640	.06300	.08460	-.29030	.04164	-.00220	.00080	.00700	.75700	.04668
.260	-2.130	-.18930	.05580	.08600	-.19120	.04874	-.00240	.00080	.00700	.81500	.04637
.260	-.030	-.09230	.05190	.08760	-.09230	.05188	-.00220	.00080	.00600	.99800	.04580
.260	2.050	.00410	.05130	.09020	.00590	.05118	-.00220	.00090	.00600	-4.88500	.04441
.260	4.150	.09830	.05430	.09280	.10200	.04703	-.00230	.00080	.00600	.31500	.04274
.260	6.250	.19400	.05800	.09510	.19910	.03658	-.00200	.00080	.00600	.47400	.04267
.260	8.370	.29080	.06680	.09970	.29750	.02378	-.00250	.00070	.00800	.52600	.04160
.260	10.460	.39220	.08040	.09910	.40030	.00788	-.00310	.00070	.00700	.55800	.04136
.260	12.590	.49970	.10180	.09830	.50990	-.00962	-.00350	.00080	.00800	.57800	.04247
.260	14.710	.60890	.13140	.09480	.62230	-.02754	-.00380	.00120	.00800	.59300	.04304
.260	16.830	.72580	.17090	.08880	.74420	-.04656	-.00360	.00130	.00900	.60500	.04440
.260	18.940	.83010	.23970	.07660	.86290	-.04269	-.01240	-.00400	.02700	.61700	.04758
.260	21.060	.93440	.30100	.07060	.98020	-.05495	-.01260	-.00510	.02800	.62300	.05049
.260	23.190	1.03440	.37610	.06250	1.09890	-.06167	-.00970	-.00400	.02200	.62800	.05605
.260	25.300	1.12340	.45570	.05990	1.21040	-.06822	-.00720	-.00450	.01800	.63100	.05940
	GRADIENT	.04594	-.00105	.00098	.04684	.00063	-.00000	.00000	-.00014	-.31327	-.00049

OA21 B17C7 H2M4F5 W107E23V7R6X9 (RDP110) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	-10.000

RUN NO. 110/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.270	-.29210	.06370	.06440	-.29610	.04180	-.00190	.00100	.00600	.72900	.04827
.260	-2.150	-.19400	.05490	.06600	-.19590	.04758	-.00200	.00090	.00600	.77300	.04711
.260	-.070	-.09770	.04890	.06800	-.09780	.04881	-.00200	.00100	.00500	.90500	.04622
.260	2.040	-.00110	.04750	.06930	.00050	.04751	-.00190	.00100	.00500	15.96400	.04417
.260	4.130	.09280	.04820	.07210	.09600	.04146	-.00210	.00100	.00600	.37300	.04332
.260	6.230	.18820	.05250	.07490	.19280	.03178	-.00200	.00110	.00500	.50600	.04222
.260	8.320	.28690	.06120	.07730	.29280	.01699	-.00220	.00090	.00600	.55200	.04120
.260	10.450	.38820	.07460	.07910	.39530	.00291	-.00260	.00060	.00700	.57600	.04141
.260	12.550	.49220	.09410	.08010	.50090	-.01511	-.00280	.00060	.00800	.59000	.04243
.260	14.670	.60330	.12240	.07880	.61460	-.03444	-.00320	.00100	.01000	.60200	.04375
.260	16.790	.72140	.16130	.07480	.73730	-.05400	-.00310	.00130	.00900	.61200	.04596
.260	18.920	.82540	.23200	.06620	.85600	-.04811	-.01180	-.00440	.02700	.62100	.04769
.260	21.060	.93170	.29270	.06180	.97470	-.06173	-.01190	-.00530	.02800	.62600	.05158
.260	23.170	1.03360	.37000	.05510	1.09590	-.06653	-.00690	-.00440	.02400	.63100	.05618
.260	25.290	1.11660	.44700	.05550	1.20050	-.07300	-.00560	-.00510	.01900	.63200	.06111
	GRADIENT	.04586	-.00183	.00069	.04672	-.00003	-.00001	.00000	-.00005	.69155	-.00061

OA21 B17C7 H2M4F5 W107E23V7R6X9 (RDP111) (09 JUL 79)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPCBRK = 55.000 CANARD = -20.000

RUN NO. 111/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.250	-.29010	.06870	.05510	-.29420	.04502	-.00150	.00020	.00500	.71800	.04859
.260	-2.160	-.19290	.05730	.05480	-.19490	.05002	-.00170	.00020	.00500	.75300	.04733
.260	-.070	-.09670	.05140	.05670	-.09660	.05132	-.00170	.00020	.00400	.86500	.04588
.260	2.020	.00060	.04870	.05860	.00260	.04873	-.00190	.00020	.00500	-7.60900	.04514
.260	4.100	.09620	.04910	.06180	.09940	.04210	-.00200	.00000	.00500	.42000	.04458
.260	6.210	.19260	.05360	.06580	.19730	.03250	-.00190	.00000	.00500	.52700	.04320
.260	8.320	.29100	.06270	.06870	.29700	.01992	-.00210	-.00020	.00600	.56400	.04170
.260	10.440	.39150	.07550	.07120	.39870	.00332	-.00240	-.00040	.00700	.58400	.04248
.260	12.560	.49660	.09600	.07220	.50570	-.01424	-.00280	-.00040	.00800	.59700	.04261
.260	14.670	.60530	.12420	.07140	.61710	-.03316	-.00320	.00020	.00800	.60700	.04367
.260	16.780	.72140	.16260	.06630	.73760	-.05263	-.00310	.00030	.00800	.61600	.04618
.260	18.910	.82930	.23400	.05670	.86040	-.04737	-.01210	-.00570	.02700	.62500	.04835
.260	21.040	.93470	.29550	.05230	.97850	-.05990	-.01210	-.00650	.02800	.63000	.05103
.260	23.170	1.03430	.37190	.04470	1.09720	-.06519	-.00880	-.00600	.02500	.63400	.05608
.260	25.300	1.11520	.44710	.04650	1.19930	-.07237	-.00550	-.00610	.01900	.63500	.06065
	GRADIENT	.04628	-.00210	.00082	.04716	-.00034	-.00006	-.00002	-.00000	-.42975	-.00149

OA21 B17C7 H3H4F5 W107E23V7R6X9 (RDP112) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.3974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	DEFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 112/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.260	-.28720	.06190	.06540	-.29100	.04040	-.00170	.00030	.00500	.73200	.04871
.260	-2.160	-.18960	.05390	.06840	-.19150	.04670	-.00200	.00020	.00600	.78100	.04713
.260	-.060	-.09170	.04880	.07140	-.09180	.04879	-.00190	.00020	.00400	.93600	.04390
.260	2.030	.00450	.04710	.07500	.00620	.04700	-.00200	.00030	.00400	-3.80500	.04481
.260	4.120	.10060	.04840	.07860	.10380	.04110	-.00210	.00030	.00500	.37100	.04409
.260	6.230	.19830	.05320	.08250	.20290	.03142	-.00210	.00010	.00500	.50000	.04309
.260	8.350	.29900	.06280	.08740	.30490	.01872	-.00240	.00000	.00600	.54400	.04220
.260	10.480	.40010	.07620	.09100	.40730	.00234	-.00260	-.00010	.00700	.56700	.04345
.260	12.570	.50720	.09810	.09430	.51640	-.01471	-.00320	-.00010	.00800	.58200	.04348
.260	14.710	.61910	.12700	.09670	.63100	-.03439	-.00400	.00060	.00700	.59300	.04526
.260	16.830	.73580	.16750	.09380	.75280	-.05275	-.00400	.00060	.00800	.60300	.04805
.260	18.960	.84320	.23940	.08670	.87530	-.04750	-.01270	-.00490	.02400	.61300	.04794
.260	21.090	.94850	.30140	.08400	.99350	-.06011	-.01290	-.00610	.02600	.61800	.05104
.260	23.200	1.05300	.37910	.07530	1.11720	-.06638	-.00920	-.00510	.02000	.62400	.05705
.260	25.340	1.15110	.46300	.07070	1.23850	-.07434	-.00680	-.00600	.01700	.62800	.06145
	GRADIENT	.04629	-.00161	.00158	.04713	.00008	-.00004	.00000	-.00010	-.25341	-.00055

OA21 B17C7 M3M4F5 W107E23V7R6X9 (RDP113) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	10.000

RUN NO. 113/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28460	.06320	.08000	-.28850	.04206	-.00200	.00020	.00600	.75100	.04621
.260	-2.170	-.18790	.05590	.08260	-.18990	.04681	-.00200	.00020	.00610	.80900	.04524
.260	-.080	-.09060	.05180	.08610	-.09060	.05154	-.00200	.00020	.00500	.99900	.04469
.260	2.040	.00640	.05100	.08980	.00830	.05080	-.00200	.00020	.00500	-3.32300	.04381
.260	4.130	.10270	.05300	.09430	.10630	.04546	-.00200	.00020	.00600	.32300	.04292
.260	6.240	.20190	.05810	.09950	.20700	.03581	-.00230	.00010	.00600	.47200	.04278
.260	8.360	.30170	.06650	.10250	.30820	.02197	-.00270	.00000	.00700	.52700	.04341
.260	10.470	.40340	.08160	.10550	.41150	.00692	-.00280	.00000	.00800	.55500	.04305
.260	12.580	.51220	.10360	.10750	.52250	-.01045	-.00340	.00000	.00800	.57400	.04433
.260	14.750	.62630	.13460	.10730	.63990	-.02939	-.00370	.00070	.00900	.58600	.04584
.260	16.840	.74320	.17510	.10140	.76200	-.04779	-.00360	.00060	.00800	.60000	.04760
.260	18.960	.84920	.24310	.09360	.88210	-.04600	-.01220	-.00410	.02200	.61000	.05018
.260	21.090	.95390	.30690	.08470	1.00040	-.05686	-.01350	-.00470	.02200	.61800	.05326
.260	23.190	1.05190	.38330	.07500	1.11780	-.06199	-.01040	-.00530	.02200	.62500	.05653
.261	25.320	1.14780	.46610	.06910	1.23690	-.06963	-.00580	-.00610	.01900	.62900	.06132
	GRADIENT	.04625	-.00121	.00171	.04715	.00042	.00000	-.00000	-.00005	-.23857	-.00038

OA21 B17C7 H3H4F5 W107E23V7R6X9 (RDP114) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5971 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVO/ =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	20.000

RUN NO. 114/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28470	.06490	.09040	-.28870	.04370	-.00210	.00020	.00700	.76500	.04654
.260	-2.180	-.18490	.05820	.09340	-.18690	.05125	-.00220	.00020	.00600	.83300	.04637
.260	-.080	-.08670	.05530	.09630	-.08680	.05525	-.00220	.00020	.00500	1.05800	.04566
.260	2.020	.00810	.05520	.09680	.01010	.L3494	-.00230	.00030	.00600	-2.93700	.04468
.260	4.120	.10540	.05620	.10320	.10930	.05049	-.00210	.00030	.00700	.30200	.04357
.260	6.230	.20140	.06360	.10710	.20710	.04135	-.00210	.00010	.00800	.45900	.04307
.260	8.340	.29720	.07180	.10680	.30450	.02797	-.00210	.00000	.00800	.51800	.04208
.260	10.460	.39710	.08600	.11190	.40610	.01243	-.00270	.00000	.01000	.54800	.04104
.260	12.560	.50290	.10730	.11050	.51420	-.00460	-.00390	.00010	.01300	.57000	.04101
.260	14.690	.61310	.13780	.10660	.62800	-.02221	-.00420	.00070	.01200	.58700	.04170
.260	16.910	.73210	.17720	.09860	.75210	-.04210	-.00400	.00060	.01000	.60100	.04377
.260	19.930	.83920	.24660	.00640	.87380	-.03906	-.01170	-.00510	.02800	.61300	.04750
.260	21.080	.94780	.31000	.08250	.99590	-.05178	-.01170	-.00600	.02900	.61900	.05026
.260	23.190	1.05080	.38790	.07400	1.11860	-.05732	-.00850	-.00560	.02500	.62500	.05561
.2[illegible]	25.300	1.15240	.47380	.[illegible]920	1.24440	-.06421	-.00580	-.00680	.02100	.62900	.05993
	GRADIENT	.04656	-.00078	.00148	.04751	.00083	-.00000	.00001	.00000	-.22420	-.00037

OA21 B17C7 H3H4F3 W107E23V7R6X9 (RDP115) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = -10.000

RUN NO. 115/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.260	-.29020	.06600	.05200	-.29430	.04433	-.00140	.00030	.00500	.71400	.04773
.260	-2.160	-.19330	.05570	.05480	-.19530	.04837	-.00170	.00010	.00500	.75300	.04786
.260	-.070	-.09680	.04970	.05780	-.09690	.04959	-.00190	.00020	.00500	.86900	.04609
.260	2.030	.00100	.04700	.06120	.00270	.04695	-.00190	.00020	.00400	-7.63500	.04539
.260	4.130	.09800	.04830	.06600	.10120	.04117	-.00190	.00020	.00400	.40900	.04382
.260	6.230	.19580	.05340	.07100	.20050	.03183	-.00210	.00010	.00500	.51900	.04229
.260	8.340	.29240	.06180	.07490	.29820	.01878	-.00220	.00000	.00500	.55700	.04173
.260	10.470	.39420	.07580	.07970	.40140	.00293	-.00250	-.00010	.00600	.57600	.04111
.260	12.570	.50020	.09600	.08200	.50910	-.01521	-.00290	-.00010	.00700	.59000	.04218
.260	14.690	.61160	.12450	.08400	.62320	-.03465	-.00340	.00040	.00900	.60000	.04264
.260	16.810	.72970	.16450	.08200	.74610	-.05353	-.00350	.00060	.00800	.60900	.04411
.260	18.950	.83610	.23530	.07500	.86720	-.04903	-.01260	-.00560	.02700	.61700	.04742
.260	21.070	.94540	.29760	.07190	.98920	-.06225	-.01300	-.00600	.02600	.62300	.05122
.260	23.200	1.04810	.37550	.06660	1.11130	-.06778	-.01020	-.00500	.02000	.62700	.05631
.260	25.340	1.14060	.45680	.06590	1.22640	-.07542	-.00700	-.00630	.01600	.63900	.06123
	GRADIENT	.04620	-.00210	.00164	.04707	-.00037	-.00006	-.00000	-.00014	-.42666	-.00049

OA21 B17C7 N3M4F5 W107E23V7R6X9 (RDP116) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPCBRK = 55.000 CANARD = -20.000

RUN NO. 116/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.290	-.29480	.07170	.04050	-.29940	.04942	-.00100	.00030	.00500	.69900	.04754
.260	-2.160	-.19660	.06110	.04280	-.19880	.05369	-.00130	.00030	.00500	.72900	.04665
.260	-.090	-.10130	.05380	.04600	-.10140	.05365	-.00130	.00030	.00500	.81600	.04644
.260	2.010	-.00440	.05210	.04770	-.00250	.05226	-.00110	.00040	.00400	7.45300	.04356
.260	4.110	.09230	.05170	.05320	.09570	.04500	-.00150	.00040	.00500	.44500	.04339
.260	6.200	.18830	.05560	.05880	.19320	.03492	-.00160	.00020	.00500	.55 00	.04295
.260	8.320	.28740	.06380	.06360	.29360	.02154	-.00180	.00000	.00500	.56900	.04215
.260	10.430	.38770	.07680	.06780	.39520	.00539	-.00210	-.00010	.00600	.58600	.04200
.260	12.560	.49650	.09670	.07100	.50570	-.01367	-.00260	.00000	.00800	.59800	.04325
.260	14.680	.60390	.12530	.07240	.61600	-.03194	-.00300	.00040	.00900	.60600	.04262
.260	16.790	.72200	.16440	.06900	.73480	-.05125	-.00290	.00050	.00900	.61500	.04439
.260	18.920	.82930	.23450	.06140	.86050	-.04708	-.01190	-.00550	.02700	.62300	.04776
.260	21.050	.93580	.29620	.05800	.97970	-.05979	-.01180	-.00650	.02800	.62800	.05086
.260	23.180	1.03700	.37350	.05220	1.10030	-.06487	-.00830	-.00550	.02400	.63200	.05585
.260	25.310	1.12590	.45060	.05410	1.21050	-.07405	-.00550	-.00690	.02100	.63300	.06170
	GRADIENT	.04608	-.00234	.00144	.04704	-.00049	-.00004	.00001	-.00005	.29596	-.00054

OA21 B17C7 M4M4F5 W107E23V/R8X9 (RDP117) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2295 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 117/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.220	-.28590	.06160	.06870	-.28950	.04047	-.00160	.00050	.00500	.73700	.04845
.260	-2.130	-.18940	.05280	.07050	-.19120	.04578	-.00160	.00040	.00500	.78500	.04842
.260	-.040	-.09290	.04600	.07170	-.09290	.04795	-.00160	.00050	.00500	.93300	.04692
.260	2.040	.00290	.04640	.07400	.00450	.04635	-.00170	.00060	.00500	-5.31900	.04554
.260	4.130	.09950	.04800	.07730	.10270	.04072	-.00180	.00050	.00400	.37200	.04436
.260	6.240	.19610	.05290	.08100	.20070	.03129	-.00180	.00040	.00500	.50100	.04329
.260	8.340	.29340	.06250	.08320	.29940	.01927	-.00200	.00020	.00600	.54700	.04191
.260	10.460	.39420	.07690	.08720	.40160	.00405	-.00260	.00000	.00800	.56900	.04158
.260	12.570	.50150	.09720	.08840	.51060	-.01433	-.00300	.00020	.00800	.58600	.04277
.260	14.700	.61210	.12590	.08760	.62400	-.03354	-.00320	.00070	.00900	.59800	.04403
.260	16.810	.72870	.16590	.08300	.74550	-.05197	-.00320	.00080	.01000	.60800	.04522
.260	18.940	.83330	.23700	.07280	.86510	-.04642	-.01190	-.00520	.02700	.61800	.04766
.260	21.080	.93890	.29910	.06690	.98360	-.05863	-.01170	-.00580	.02800	.62400	.05024
.260	23.220	1.03800	.37640	.05720	1.10230	-.06334	-.00780	-.00510	.02300	.63000	.05562
.260	25.310	1.12370	.45330	.05570	1.20960	-.07061	-.00560	-.00630	.02100	.63200	.05968
	GRADIENT	.04614	-.00161	.00099	.04696	.00005	-.00001	.00001	-.00010	-.32702	-.00053

OA21 B17C7 H4M4F5 W107E23V7R6X9 (RDP118) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5971 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	10.000

RUN NO. 118/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.200	-.28670	.06260	.07940	-.29060	.04148	-.00190	.00050	.00600	.75000	.04598
.260	-2.120	-.18940	.05520	.08040	-.19140	.04821	-.00200	.00050	.00600	.80400	.04521
.260	.000	-.09240	.05090	.08210	-.09240	.05090	-.00200	.00050	.00600	.97600	.04427
.260	2.050	.00130	.05010	.08470	.00310	.05005	-.00190	.00060	.00500	-9.26800	.04337
.260	4.150	.09880	.05100	.08700	.10220	.04375	-.00200	.00050	.00600	.33600	.04328
.260	6.260	.19340	.05670	.08970	.19840	.03532	-.00210	.00050	.00600	.48300	.04097
.260	8.390	.29370	.06420	.09130	.29990	.02075	-.00210	.00030	.00600	.53700	.04225
.260	10.470	.39550	.07860	.09220	.40320	.00539	-.00240	.00020	.00700	.56500	.04202
.260	12.600	.50100	.09990	.09240	.51070	-.01179	-.00290	.00010	.00900	.58300	.04243
.260	14.710	.61060	.12870	.09020	.62330	-.03066	-.00310	.00060	.01000	.59600	.04347
.260	16.820	.72650	.16780	.08380	.74400	-.04961	-.00290	.00060	.01000	.60800	.04515
.260	18.950	.83120	.23860	.07300	.86370	-.04425	-.01170	-.00510	.02800	.61800	.04746
.260	21.090	.93800	.30080	.06750	.98340	-.05688	-.01160	-.00600	.02900	.62400	.05051
.260	23.180	1.03660	.37570	.05980	1.10080	-.06270	-.00050	-.00530	.02300	.62900	.05544
.260	25.330	1.12830	.45680	.05770	1.21530	-.06988	-.00580	-.01630	.02200	.63200	.06001
	GRADIENT	.04606	-.00136	.00093	.04696	.00031	-.00000	.00000	-.00005	-.51917	-.00035

OA21 B17C7 H4H4F5 W107E23V7R6X9 (RDP119) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = 20.000

RUN NO. 119/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.230	-.28300	.06380	.08540	-.28690	.04276	-.00200	.00030	.00500	.75900	.04658
.260	-2.100	-.18350	.05570	.08570	-.18550	.04896	-.00210	.00020	.00600	.81900	.04682
.260	-.050	-.08950	.05220	.08650	-.08960	.05214	-.00220	.00020	.00600	1.00500	.04589
.260	2.050	.00700	.05260	.08790	.00890	.05237	-.00210	.00030	.00500	-2.96900	.04393
.260	4.130	.10220	.05360	.08890	.10580	.04614	-.00220	.00020	.00600	.34000	.04390
.260	6.240	.19760	.05850	.09060	.20280	.03666	-.00220	.00010	.00600	.48500	.04254
.260	8.340	.29440	.06630	.09190	.30090	.02291	-.00220	.00000	.00600	.53700	.04143
.260	10.460	.39540	.08090	.09110	.40350	.00776	-.00250	-.00030	.00800	.56600	.04059
.260	12.580	.50100	.10100	.08980	.51100	-.01045	-.00290	-.00030	.00900	.58500	.04180
.260	14.700	.61330	.13020	.08800	.62630	-.02976	-.00280	.00010	.01000	.59800	.04325
.260	16.830	.72760	.17050	.08250	.74580	-.04740	-.00280	.00010	.01000	.60900	.04383
.260	18.940	.83400	.23990	.07320	.86680	-.06383	-.01130	-.00550	.02800	.61800	.04785
.260	21.060	.93910	.30120	.06830	.98460	-.05646	-.01130	-.00610	.02800	.62400	.05066
.260	23.190	1.04180	.37840	.05090	1.10660	-.06252	-.00720	-.00460	.02300	.62900	.05531
.260	25.290	1.13160	.46070	.05790	1.21990	-.06704	-.00580	-.00680	.02200	.63200	.05984
	GRADIENT	.04604	-.00113	.00044	.04695	.00049	-.00002	-.00000	.00005	-.22189	-.00039

OA21 B17C7 H4M4F5 W10TE23V7R6X9 (RDP120) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	18.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDCR =	.000
SPDBRK =	55.000	CANARD =	-10.000

RUN NO. 120/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28750	.06340	.06110	-.29140	.04202	-.00160	.00020	.00500	.72700	.04839
.260	-2.130	-.19190	.05460	.06230	-.19380	.04746	-.00160	.00020	.00400	.76800	.04732
.260	-.080	-.09590	.04680	.06370	-.09600	.04875	-.00180	.00010	.00400	.89400	.04653
.260	2.020	.00090	.04650	.06560	.00260	.04648	-.00180	.00030	.00300	-8.52100	.04149
.260	4.130	.09910	.04710	.06830	.10230	.03986	-.00200	.00020	.00500	.40300	.04470
.260	6.250	.19400	.05220	.07140	.19850	.03086	-.00200	.00000	.00500	.51700	.04308
.260	8.360	.29340	.06090	.07460	.29910	.01761	-.00210	.00000	.00500	.59700	.04243
.260	10.440	.39390	.07450	.07700	.40080	.00190	-.00240	-.00030	.00700	.57900	.04236
.260	12.590	.50010	.09560	.07980	.50890	-.01574	-.00290	-.00020	.00800	.59200	.04222
.260	14.680	.60840	.12370	.08010	.61990	-.03455	-.00320	.00030	.00900	.60200	.04306
.260	16.800	.72640	.16350	.07600	.74270	-.05341	-.00330	.00040	.00900	.61200	.04481
.260	18.930	.83220	.23410	.06630	.86320	-.04855	-.01230	-.00370	.02700	.62100	.04850
.260	21.070	.93920	.29480	.06210	.98240	-.06270	-.01190	-.00610	.02600	.62600	.05201
.260	23.190	1.04100	.37400	.05350	1.10420	-.06609	-.00840	-.00530	.02200	.63100	.05704
.260	25.310	1.12620	.45100	.05290	1.21100	-.07387	-.00560	-.00640	.01800	.63300	.06130
	GRADIENT	.04615	-.00194	.00085	.04700	-.00026	-.00005	.00000	-.00005	-.47046	-.00044

OA21 B1TC7 H4M4F5 W107E23V7R6X9 (R0P121) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	-20.000

RUN NO. 121/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.250	-.28790	.06540	.05740	-.29200	.04391	-.00140	.00040	.00500	.72200	.04894
.260	-2.170	-.19330	.05700	.05630	-.19530	.04966	-.00180	.00040	.00500	.75500	.04795
.260	-.080	-.09520	.05150	.05700	-.09520	.05145	-.00180	.00030	.00500	.87000	.04595
.260	2.010	.00070	.04860	.05870	.00240	.04858	-.00170	.00030	.00400	-8.29300	.04558
.260	4.090	.09320	.05040	.06100	.09860	.04355	-.00180	.00020	.00500	.42200	.04329
.260	6.190	.19310	.05400	.06430	.19780	.03288	-.00160	.00010	.00400	.33000	.04343
.260	8.310	.28930	.06270	.06770	.29530	.02027	-.00160	.00000	.00500	.56500	.04207
.260	10.460	.39080	.07560	.06970	.39810	.00339	-.00210	-.00030	.00700	.58500	.04277
.260	12.540	.49360	.09660	.07260	.50480	-.01336	-.00260	-.00030	.00900	.59600	.04232
.260	14.680	.60610	.12490	.07250	.61800	-.03254	-.00290	.00030	.00900	.60600	.04318
.260	16.790	.72390	.16420	.06830	.74050	-.05204	-.00290	.00040	.00900	.61500	.04500
.260	18.910	.82940	.23480	.05890	.86070	-.04669	-.01190	-.00570	.02700	.62400	.04775
.260	21.050	.93590	.29480	.05460	.97930	-.06105	-.01150	-.00630	.02700	.62900	.05093
.260	23.180	1.03800	.37320	.04700	1.10110	-.06552	-.00850	-.00600	.02400	.63400	.05649
.260	25.260	1.12080	.45080	.04730	1.20600	-.07098	-.00530	-.00690	.01900	.63500	.06067
	GRADIENT	.04603	-.00184	.00046	.04693	-.00008	-.00004	-.00002	-.00005	-.46242	-.00066

OA21 B17C7 H5M4F5 W107E23V7R6X9 (RDP122) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	55.000	CANARD =	.000

RUN NO. 122/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.260	-.28930	.06440	.06580	-.29330	.04272	-.00200	.00030	.00600	.73200	.04609
.260	-2.160	-.19170	.05480	.07000	-.19360	.04758	-.00200	.00020	.00600	.79200	.04627
.260	-.060	-.09490	.04910	.07320	-.09500	.04903	-.00200	.00020	.00600	.93300	.04566
.260	2.040	.00300	.04770	.07680	.00470	.04759	-.00190	.00030	.00500	-5.36000	.04415
.260	4.170	.10140	.04890	.08210	.10470	.04145	-.00190	.00020	.00500	.36100	.04349
.260	6.240	.19850	.05340	.08720	.20320	.03154	-.00210	.00010	.00600	.49100	.04343
.260	8.340	.29920	.06430	.09270	.30540	.02021	-.00220	.00000	.00600	.53600	.04118
.260	10.470	.40340	.07760	.09730	.41080	.00307	-.00250	-.00020	.00800	.56200	.04306
.260	12.540	.50950	.09660	.10070	.51880	-.01477	-.00300	.00000	.00900	.57800	.04426
.260	14.710	.62050	.12900	.10160	.63290	-.03277	-.00340	.00040	.01000	.59000	.04455
.260	16.850	.73940	.17000	.09920	.75700	-.05167	-.00350	.00060	.00900	.60100	.04638
.260	18.950	.84730	.24060	.08990	.87960	-.04747	-.01220	-.00500	.02600	.61200	.04952
.260	21.100	.95220	.30230	.08220	.99720	-.06068	-.01190	-.00560	.02500	.61900	.05250
.260	23.210	1.05420	.38270	.07310	1.11970	-.06366	-.00850	-.00470	.02200	.62500	.05660
.260	25.330	1.15000	.46480	.06810	1.23830	-.07199	-.00570	-.00610	.01900	.62900	.06188
	GRADIENT	.04635	-.00181	.00187	.04721	-.00012	.00001	-.00000	-.00014	-.32535	-.00035

OA21 B17C7 H5N4F5 W1G7C23V7R6X9 (RDP123) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	10.000

RUN NO. 123/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.250	-.28540	.06310	.08100	-.28930	.04174	-.00190	.00030	.00600	.75200	.04802
.260	-2.120	-.18510	.05560	.06490	-.18700	.04879	-.00200	.00040	.00600	.81600	.04526
.260	-.020	-.08720	.05250	.06980	-.08720	.05247	-.00200	.00030	.00600	1.02600	.04396
.260	2.090	.00780	.05120	.09380	.00940	.05095	-.00210	.00030	.00600	-2.99500	.04395
.260	4.190	.10570	.05380	.09870	.10930	.04606	-.00210	.00030	.00600	.31700	.04304
.260	6.270	.20260	.05930	.10410	.20810	.03686	-.00220	.00010	.00700	.46500	.04199
.260	8.350	.30000	.06830	.10750	.30660	.02401	-.00230	.00000	.00700	.52000	.04225
.260	10.500	.40620	.08230	.10960	.41440	.00686	-.00240	-.00010	.00800	.55200	.04325
.260	12.600	.51240	.10430	.10930	.52230	-.01004	-.00300	.00000	.00900	.57200	.04405
.260	14.710	.62140	.13330	.10520	.63490	-.02681	-.00330	.00060	.00900	.58800	.04474
.260	16.820	.73600	.17300	.09810	.75460	-.04735	-.00370	.00060	.00800	.60100	.04573
.260	18.950	.84460	.24460	.08650	.87830	-.07302	-.01210	-.00480	.02600	.61200	.04867
.260	21.100	.95110	.30610	.08510	.99760	-.05686	-.01170	-.00550	.02600	.61800	.05154
.260	23.220	1.05790	.38540	.07720	1.12410	-.08506	-.00780	-.00400	.02100	.62400	.05664
.260	25.350	1.15300	.47000	.07380	1.24330	-.06889	-.00630	-.00520	.02100	.62700	.06125
	GRADIENT	.04649	-.00119	.00210	.04738	.00052	-.00002	-.00000	-.00000	-.22226	-.00035

OA21 B17C7 H5M4F5 W10FE23V7R6X9 (RDP124) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SFCBRK =	55.000	CANARD =	20.000

RUN NO. 124/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.240	-.28230	.06680	.09560	-.28670	.04574	-.00200	.00040	.00600	.77200	.04560
.260	-2.130	-.18250	.06010	.09650	-.18470	.05327	-.00210	.00030	.00600	.84500	.04507
.260	-.020	-.08540	.03520	.10110	-.08540	.05523	-.00220	.00030	.00600	1.08500	.04675
.260	2.040	.00810	.05630	.10240	.01010	.05598	-.00200	.00050	.00600	-3.04900	.04444
.260	4.140	.10430	.05880	.10490	.10820	.05116	-.00210	.00030	.00600	.29300	.04367
.260	6.250	.19970	.06400	.10630	.20550	.04187	-.00210	.00030	.00700	.45900	.04224
.260	8.350	.29520	.07190	.10830	.30250	.02828	-.00210	.00010	.00700	.51800	.04104
.260	10.470	.39760	.08540	.10770	.40650	.01176	-.00220	.00000	.00800	.55200	.04120
.260	12.590	.50070	.10610	.10800	.51180	-.00556	-.00290	.00000	.01000	.57300	.04176
.260	14.730	.61240	.13640	.10380	.62690	-.02378	-.00330	.00050	.01100	.58600	.04254
.260	16.850	.73360	.17820	.09660	.75370	-.04216	-.00320	.00020	.01100	.60100	.04435
.260	18.980	.84010	.24860	.09020	.87530	-.03825	-.01140	-.00460	.02600	.61100	.04720
.260	21.110	.94800	.31150	.08760	.99660	-.05091	-.01130	-.00510	.02500	.61700	.05024
.260	23.220	1.05480	.38990	.07990	1.12310	-.05759	-.00740	-.00400	.02000	.62300	.05533
.260	25.360	1.16310	.48170	.07470	1.25730	-.06299	-.00590	-.00600	.02000	.62700	.06068
	GRADIENT	.04607	-.00095	.00109	.04704	.00065	-.00000	-.00000	.00000	-.23065	-.00121

OA21 B17C7 H5N4F5 W107E23V7R6X9 (RDP125) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPOBRK = 55.000 CANARD = -10.000

RUN NO. 123/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-4.290	-.29260	.06740	.04770	-.29710	.04537	-.00140	.00030	.00500	.70800	.04691
.200	-2.180	-.19570	.05670	.0906[illegible]	-.19770	.04924	-.00150	.00030	.00500	.74400	.04749
.200	-.080	-.09650	.05070	.05470	-.09650	.05066	-.00160	.00040	.00500	.85800	.04518
.200	1.990	-.00270	.04810	.05870	-.00100	.04825	-.00160	.00040	.00500	21.43400	.04408
.200	4.100	.09430	.04870	.06500	.09750	.04189	-.00170	.00020	.00500	.40400	.04343
.200	6.200	.19100	.05350	.07040	.19570	.03264	-.00180	.00010	.00600	.51700	.04155
.200	8.330	.29010	.06160	.07550	.29800	.01898	-.00180	.00000	.00600	.55500	.04151
.200	10.490	.39380	.07550	.08080	.40100	.00287	-.00210	-.00020	.00600	.57500	.04118
.200	12.570	.50080	.09550	.08620	.50930	-.01581	-.00250	.00000	.00900	.58700	.04178
.200	14.680	.61110	.12500	.08910	.62290	-.03392	-.00300	.00040	.01000	.59700	.04202
.200	16.830	.72960	.16450	.08720	.74600	-.05376	-.00290	.00040	.01000	.60600	.04374
.200	18.950	.83940	.23580	.07940	.87050	-.04958	-.01190	-.00560	.02700	.61600	.04720
.200	21.080	.94700	.29680	.07710	.99140	-.06372	-.01120	-.00620	.02600	.62100	.05116
.200	23.190	1.04930	.37660	.07010	1.11280	-.06715	-.00790	-.00470	.02100	.62600	.05689
.200	25.330	1.14400	.45890	.07000	1.23040	-.07462	-.00510	-.00630	.01800	.62800	.06122
	GRADIENT	.04617	-.00220	.00202	.04706	-.00038	-.00003	-.00000	-.00000	.95063	-.00049

OA21 B17C7 H5M4F5 W10TE23V7R6X9 (RDP126) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	-20.000

RUN NO. 126/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.260	-.29530	.07070	.04120	-.29980	.04854	-.00130	.00040	.00500	.70000	.04865
.260	-2.190	-.19800	.06110	.04190	-.20020	.05356	-.00140	.00050	.00500	.72600	.04789
.260	-.090	-.10190	.05480	.04270	-.10190	.05471	-.00150	.00050	.00400	.80400	.04615
.260	2.020	-.00500	.05180	.04480	-.00520	.05200	-.00160	.00050	.00500	5.77700	.04505
.260	4.110	.09010	.05240	.04940	.09360	.04584	-.00140	.00040	.00500	.45500	.04357
.260	6.210	.18690	.05570	.05500	.19160	.03519	-.00160	.00020	.00600	.54400	.04297
.260	8.320	.28570	.06440	.06050	.29270	.02242	-.00150	.00010	.00600	.57300	.04178
.260	10.420	.38900	.07690	.06580	.39640	.00522	-.00180	-.00010	.00800	.58800	.04234
.260	12.590	.49610	.09770	.07110	.50530	-.01328	-.00240	.00000	.00900	.59800	.04244
.260	14.680	.60440	.12580	.07280	.61660	-.03149	-.00280	.00050	.00900	.60600	.04246
.260	16.810	.72270	.16460	.07060	.73940	-.05144	-.00270	.00030	.01000	.61400	.04395
.260	18.920	.83150	.23430	.06370	.86260	-.04806	-.01150	-.00560	.02800	.62200	.04765
.260	21.070	.93860	.29590	.06120	.98230	-.06133	-.01110	-.00630	.02700	.62600	.05029
.260	23.160	1.04260	.37250	.05640	1.10510	-.06807	-.00670	-.00450	.02000	.63100	.05547
.260	25.310	1.13270	.45450	.05790	1.21830	-.07341	-.00470	-.00610	.01900	.63200	.06047
	GRADIENT	.04592	-.00219	.00092	.04687	-.00033	-.00002	-.00000	.00000	.21810	-.00062

OA21 B17C7 H2M4F5 W10YE23V7R8X9 (RDP127) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0403 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 127/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.150	-.19630	.05800	.03120	-.20000	.04369	-.00170	.00090	.00500	.70700	.04926
.260	-2.070	-.10120	.05280	.03220	-.10300	.04918	-.00170	.00090	.00500	.76400	.04809
.260	.040	-.00340	.05050	.03260	-.00330	.05053	-.00160	.00080	.00400	4.21700	.04701
.260	2.140	.09380	.05240	.03420	.09570	.04890	-.00170	.00070	.00400	.51800	.04499
.260	4.230	.19120	.05550	.03590	.19480	.04122	-.00190	.00060	.00500	.58100	.04502
.260	6.330	.28750	.06250	.03740	.29270	.03040	-.00200	.00040	.00400	.60200	.04474
.260	8.430	.38890	.07500	.03980	.39570	.01716	-.00220	.00020	.00400	.61200	.04386
.260	10.560	.48940	.09250	.04140	.49800	.00130	-.00250	.00000	.00600	.61900	.04387
.260	12.660	.59130	.11640	.04320	.60250	-.01608	-.00300	-.00010	.00700	.62300	.04406
.260	14.780	.69960	.14820	.04320	.71430	-.03520	-.00310	.00050	.00700	.62700	.04505
.260	16.910	.81660	.19250	.03960	.83920	-.05392	-.00310	.00100	.00600	.63200	.04634
.260	19.030	.92080	.26660	.03230	.95740	-.04831	-.01250	-.00640	.02600	.63700	.05025
.260	21.170	1.02250	.33170	.02790	1.07330	-.06000	-.01180	-.00670	.02500	.64000	.05337
.260	23.300	1.12250	.41470	.01920	1.19510	-.06308	-.00620	-.00390	.01600	.64300	.05900
.260	25.420	1.20350	.50050	.01920	1.30370	-.06550	-.00410	-.00520	.01300	.64400	.06295
	GRADIENT	.04626	-.00026	.00054	.04713	-.00025	-.00002	-.00004	-.00005	-.02362	-.00055

OA21 B17C7 H2W4F5 W107E23V7R6X9 (RDP128) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	55.000	CANARD =	10.000

RUN NO. 128/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.160	-.19470	.05680	.03620	-.19840	.04428	-.00190	.00090	.00600	.71700	.04793
.260	-2.070	-.09890	.05330	.03750	-.10070	.04974	-.00180	.00090	.00500	.78600	.04706
.260	.000	-.00420	.05070	.03840	-.00420	.05072	-.00180	.00090	.00500	4.00900	.04753
.260	2.110	.09460	.05330	.03990	.09550	.04984	-.00190	.00080	.00500	.49700	.04510
.260	4.210	.19100	.05710	.04260	.19460	.04297	-.00200	.00070	.00500	.56900	.04499
.260	6.330	.28730	.06520	.04540	.29270	.03316	-.00200	.00050	.00500	.59200	.04404
.260	8.420	.38600	.07630	.04750	.39310	.01899	-.00220	.00030	.00600	.60500	.04403
.260	10.550	.49160	.09420	.04880	.50050	.00257	-.00250	.00000	.00700	.61300	.04467
.260	12.660	.59360	.11920	.05090	.60550	-.01385	-.00270	.00000	.00700	.61800	.04437
.260	14.780	.70450	.15140	.04970	.71980	-.03328	-.00300	.00060	.00800	.62400	.04621
.260	16.890	.81870	.19530	.04460	.84010	-.05108	-.00310	.00100	.00800	.63000	.04694
.260	19.000	.92100	.26940	.03780	.95850	-.04524	-.01280	-.00610	.02700	.63500	.05038
.260	21.130	1.02500	.33430	.03150	1.07660	-.05776	-.01230	-.00610	.02500	.63900	.05394
.260	23.240	1.12200	.41980	.01970	1.19660	-.05754	-.00760	-.01430	.01900	.64300	.05996
.260	25.360	1.20350	.50130	.01960	1.30220	-.06305	-.00480	-.00530	.01400	.64400	.06221
	GRADIENT	.04612	-.00014	.00073	.04700	-.00012	-.00001	-.00002	-.00010	-.02934	-.00038

OA21 B17C7 M2M4F5 W107E23V7R6X9 (RDP129) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	5.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	20.000

RUN NO. 129/ 0 RN/L = 1.85 GRADIENT INYERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.160	-.19140	.05910	.04160	-.19520	.04513	-.00170	.00100	.00500	.72800	.04784
.260	-2.080	-.09650	.05470	.04320	-.09650	.05124	-.00180	.00090	.00500	.81100	.04759
.260	.020	-.00010	.05370	.04480	-.00010	.05375	-.00170	.00080	.00500	32.76700	.04731
.260	2.120	.09610	.05590	.04750	.09810	.05238	-.00160	.00070	.00600	.47100	.04626
.260	4.210	.19220	.06120	.04990	.19620	.04696	-.00200	.00070	.00600	.55600	.04475
.260	6.320	.28720	.06880	.05160	.29300	.03675	-.00230	.00060	.00600	.58400	.04368
.260	8.420	.38280	.08040	.05410	.39040	.02349	-.00260	.00040	.00600	.59800	.04225
.260	10.530	.48530	.09730	.05480	.49490	.00698	-.00290	.00030	.00600	.60900	.04277
.260	12.680	.59140	.12140	.05340	.60360	-.01108	-.00320	.00010	.00600	.61700	.04428
.260	14.790	.69930	.15450	.05020	.71560	-.02874	-.00360	.00100	.00600	.62300	.04423
.260	16.890	.81560	.19720	.04220	.83780	-.04827	-.00350	.00110	.00600	.63100	.04600
.260	19.020	.91700	.27100	.03280	.95560	-.04280	-.01280	-.00620	.02800	.63700	.04925
.260	21.130	1.01930	.33500	.02780	1.07150	-.05499	-.01270	-.00580	.02500	.64000	.05294
.260	23.260	1.11760	.41790	.01830	1.19180	-.05750	-.00770	-.00300	.01600	.64400	.05754
.260	25.380	1.20470	.50370	.01930	1.30440	-.06145	-.00580	-.00480	.01400	.64400	.06220
	GRADIENT	.04584	.00026	.00100	.04677	.00025	-.00003	-.00004	.00014	-.03416	-.00036

OA21 B17C7 H2H4F5 W107E23V7R6X9 (RDP130) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
WREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	20.000

RUN NO. 130/ 0 RN/L = 1.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08650	.05610	-.00870	-.09030	.04986	-.00140	.00070	.00400	.61400	.05451
.260	-2.000	.00540	.05420	-.00700	.00350	.05443	-.00140	.00080	.00400	1.37800	.05441
.260	.090	.10250	.05710	-.00620	.10260	.05700	-.00140	.00090	.00400	.67200	.05249
.260	2.200	.20060	.06350	-.00210	.20310	.05580	-.00180	.00090	.00400	.65300	.05005
.260	4.290	.29760	.07220	.00090	.30210	.04972	-.00200	.00090	.00500	.64800	.04860
.260	6.400	.39120	.08350	.00290	.39810	.03938	-.00250	.00080	.00600	.64700	.04707
.260	8.500	.48670	.09820	.00520	.49590	.02517	-.00290	.00090	.00600	.64500	.04557
.260	10.610	.58900	.11910	.00540	.60090	.00861	-.00350	.00100	.00700	.64600	.04627
.260	12.730	.69550	.14710	.00290	.71080	-.00980	-.00340	.00120	.00500	.64800	.04732
.260	14.830	.80420	.18470	-.00100	.82470	-.02768	-.00400	.00240	.00600	.65000	.04732
.260	16.970	.91970	.23210	-.00870	.94740	-.04656	-.00410	.00220	.00700	.65300	.04890
.260	19.080	1.01180	.31100	-.01630	1.05790	-.03691	-.01460	-.00780	.03100	.65500	.05227
.260	21.200	1.11240	.38140	-.02040	1.17500	-.04663	-.01440	-.00680	.02800	.65600	.05577
.260	23.330	1.20510	.46920	-.02930	1.29240	-.04654	-.00920	-.00470	.02000	.65800	.06096
.260	25.440	1.27990	.55110	-.02330	1.39260	-.05223	-.00610	-.00570	.01400	.65500	.06459
	GRADIENT	.04597	.00198	.00115	.04697	.00005	-.00008	.00002	.00010	-.03139	-.00077

OA21 B17C7 H2W4F5 W107E23VTR8X9 (RDP131) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	10.000

RUN NO. 131/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.100	-.08780	.05470	-.01590	-.09150	.04832	-.00120	.00080	.00400	.58500	.05510
.260	-1.990	.00770	.05240	-.01490	.00590	.05268	-.00130	.00070	.00400	1.57800	.05428
.260	.090	.10360	.05450	-.01360	.10360	.05441	-.00140	.00070	.00400	.69800	.05293
.260	2.200	.20160	.05800	-.01180	.20370	.05026	-.00140	.00070	.00400	.67100	.05320
.260	4.280	.29330	.06790	-.00710	.29760	.04582	-.00170	.00050	.00500	.65800	.04909
.260	6.390	.39030	.07940	-.00340	.39670	.03548	-.00210	.00030	.00600	.65300	.04729
.260	8.530	.48890	.09390	-.00120	.49740	.02039	-.00220	.00020	.00600	.65000	.04773
.260	10.610	.59030	.11530	.00040	.60150	.00467	-.00220	.00000	.00800	.64900	.04806
.260	12.730	.69650	.14380	.00090	.71110	-.01325	-.00270	.00020	.00800	.64900	.04876
.260	14.850	.80460	.18100	.00000	.82410	-.03126	-.00320	.00080	.00800	.64900	.04869
.260	16.970	.91910	.22780	-.00480	.94560	-.05038	-.00330	.00100	.00700	.65100	.05049
.260	19.080	1.01370	.30780	-.01090	1.05860	-.04045	-.01470	-.00840	.02900	.65300	.05330
.260	21.210	1.11250	.37900	-.01550	1.17430	-.04911	-.01360	-.00720	.02700	.65400	.05642
.260	23.340	1.20860	.46890	-.02690	1.29550	-.04844	-.00780	-.00550	.01900	.65700	.06194
.260	25.440	1.27900	.54860	-.02150	1.39070	-.05424	-.00500	-.00680	.01400	.65500	.06512
	GRADIENT	.04564	.00153	.00099	.04659	-.00035	-.00005	-.00003	.00010	-.03613	-.00062

OA21 B17C7 H2M4F5 W107E23V7R6X9 (RDP132) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SFCBRK =	55.000	CANARD =	.000

RUN NO. 132/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08950	.05570	-.02100	-.09330	.04918	-.00130	.00070	.00400	.56600	.05436
.260	-2.000	.00610	.05310	-.01980	.00430	.05328	-.00120	.00080	.00300	2.34200	.05410
.260	.080	.10180	.05370	-.01930	.10190	.05356	-.00130	.00080	.00300	.71900	.05282
.260	2.170	.19760	.05750	-.01830	.19970	.05003	-.00160	.00060	.00400	.68300	.05207
.260	4.270	.29080	.06670	-.01410	.29500	.04487	-.00190	.00050	.00300	.66700	.04827
.260	6.380	.38900	.07710	-.01190	.39510	.03341	-.00220	.00040	.00600	.66000	.04772
.260	8.480	.48610	.09220	-.00970	.49440	.01951	-.00240	.00040	.00600	.65700	.04724
.260	10.590	.58490	.11310	-.00810	.59570	.00374	-.00260	.00020	.00700	.65400	.04671
.260	12.720	.68970	.14090	-.00700	.70380	-.01439	-.00300	.00030	.00800	.65300	.04709
.260	14.830	.79730	.17630	-.00620	.81580	-.03368	-.00320	.00110	.00700	.65200	.04772
.260	16.950	.91400	.22380	-.01060	.93960	-.05240	-.00310	.00130	.00700	.65300	.04944
.260	19.090	1.01090	.30390	-.01570	1.05480	-.04342	-.01370	-.00830	.03000	.65500	.05284
.260	21.210	1.10890	.37510	-.01910	1.16950	-.05151	-.01260	-.00760	.02800	.65500	.05622
.260	23.330	1.20690	.46430	-.02870	1.29210	-.05159	-.00710	-.00610	.02100	.65800	.06211
.260	25.440	1.27260	.54330	-.01980	1.38260	-.05620	-.00380	-.00570	.01300	.65500	.06558
	GRADIENT	.04558	.00127	.00073	.04653	-.00057	-.00008	-.00003	.00014	-.06964	-.00068

DATE 08 NOV 73 TABULATED SOURCE DATA NAAL-705 OA21A (XDP133) (08 NOV 73)

OA21 B17C7H3M4F5 W107E23V7R6X9

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOSRK =	55.000	CANARD =	.000

RUN NO. 133/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.09010	.05660	-.02310	-.09390	.05011	-.00120	.00090	.00400	.55800	.05278
.260	-2.020	.00360	.05460	-.01990	.00170	.05477	-.00140	.00070	.00400	4.87400	.05157
.260	.080	.10150	.05460	-.01780	.10160	.05450	-.00140	.00070	.00400	.71400	.05122
.260	2.200	.19900	.05850	-.01440	.20110	.05083	-.00160	.00070	.00400	.67600	.05051
.260	4.280	.29380	.06630	-.01070	.29790	.04421	-.00170	.00060	.00500	.66300	.04857
.260	6.390	.39120	.07780	-.00630	.39750	.03373	-.00200	.00040	.00600	.65500	.04793
.260	8.500	.49160	.09330	-.00270	.50000	.01959	-.00210	.00030	.00600	.65100	.04739
.260	10.610	.59140	.11430	.00170	.60230	.00342	-.00230	.00030	.00700	.64800	.04769
.260	12.760	.69870	.14190	.00420	.71280	-.01584	-.00280	.00040	.00700	.64700	.04916
.260	14.860	.80690	.17840	.00410	.82560	-.03444	-.00350	.00130	.00600	.64700	.04967
.260	16.970	.92480	.22660	.00120	.95070	-.05316	-.00350	.00160	.00600	.64900	.05119
.260	19.100	1.02100	.30580	-.00240	1.06520	-.04423	-.01430	-.00840	.03000	.65000	.05419
.260	21.240	1.11890	.37910	-.00360	1.18020	-.05206	-.01350	-.00710	.02700	.65000	.05582
.260	23.360	1.21850	.47020	-.01230	1.30510	-.05167	-.00750	-.00490	.01800	.65300	.06194
.260	25.470	1.29980	.55400	-.01020	1.41170	-.05887	-.00540	-.00650	.01300	.65200	.06699
	GRADIENT	.04595	.00111	.00145	.04690	-.00075	-.00006	-.00003	.00010	-.19164	-.00045

OA21 B17C7H3M4F5 W107E23V7R6X9 (XDP134) (08 NOV 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SFDSRK =	55.000	CANARD =	10.000

RUN NO. 134/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.120	-.08600	.05660	-.01180	-.09160	.05012	-.00130	.00060	.00400	.60200	.05297
.260	-2.010	.00640	.05520	-.00810	.00450	.05546	-.00140	.00060	.00400	1.31400	.05167
.260	.080	.10270	.05660	-.00490	.10280	.05671	-.00160	.00070	.00500	.66700	.05102
.260	2.180	.20030	.06180	-.00000	.20260	.05419	-.00170	.00070	.00400	.65100	.05020
.260	4.290	.29770	.07020	.00410	.30210	.04770	-.00170	.00060	.00500	.64490	.04800
.260	6.400	.39330	.08210	.00890	.40000	.03771	-.00220	.00050	.00600	.64100	.04722
.260	8.510	.49190	.09710	.01220	.50060	.02525	-.00260	.00050	.00600	.64000	.04785
.260	10.620	.59301	.11600	.01360	.60350	.00629	-.00280	.00040	.00600	.64100	.04895
.260	12.740	.70240	.14720	.01430	.71760	-.0113(	-.00320	.00060	.00600	.64200	.05009
.260	14.870	.81390	.18450	.01460	.83360	-.03042	-.00350	.00140	.00600	.64300	.05120
.260	16.980	.92760	.23370	.00920	.95540	-.04755	-.00360	.00150	.00600	.64600	.05140
.260	19.120	1.02420	.31360	.00270	1.07040	-.03909	-.01490	-.00710	.02700	.64600	.03466
.260	21.220	1.12020	.36340	-.00060	1.18310	-.04809	-.01470	-.00660	.02500	.65000	.05729
.260	23.350	1.21770	.47370	-.01490	1.30570	-.04776	-.00860	-.00490	.01800	.65400	.06272
.260	25.460	1.30060	.55840	-.01260	1.41440	-.05504	-.00430	-.00640	.01500	.65300	.06746
	GRADIENT	.04594	.00161	.00167	.04693	-.00029	-.00005	-.00002	.00010	-.02745	-.00047

OA21 B17C7H3M4F5 W107E23V7R6X9 (XDP135) (08 NOV 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	10.000	AILRUN =	.000
VTLINC =	.000	RUDDFR =	.000
SPDBRK =	55.000	CANARD =	20.000

RUN NO. 135/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08580	.05830	-.00010	-.08970	.05211	-.00160	.00070	.00500	.64900	.05265
.260	-1.990	.00770	.05780	.00460	.00580	.05806	-.00160	.00080	.00400	.55600	.05131
.260	.100	.10390	.05990	.00760	.10600	.05980	-.00170	.00090	.00400	.52300	.05220
.260	2.210	.20340	.06660	.00940	.20560	.05871	-.00190	.00090	.00400	.63200	.05027
.260	4.290	.29630	.07610	.01330	.30320	.05361	-.00190	.00080	.00500	.63300	.04824
.260	6.410	.39300	.08790	.01760	.40030	.04349	-.00210	.00070	.00500	.63300	.04733
.260	8.510	.48750	.10250	.02020	.49750	.02898	-.00220	.00080	.00600	.63400	.04658
.260	10.600	.58400	.12310	.02160	.59660	.01359	-.00270	.00070	.00600	.63600	.04451
.260	12.740	.69140	.15120	.02000	.70780	-.00493	-.00390	.00070	.01100	.63900	.04531
.260	14.840	.79940	.18730	.01530	.82070	-.02369	-.00390	.00140	.00900	.64200	.04660
.260	16.980	.91620	.23590	.00960	.94710	-.04280	-.00370	.00140	.00800	.64700	.04771
.260	19.100	1.01690	.31440	-.00110	1.06360	-.03569	-.01360	-.01760	.03300	.65000	.05192
.260	21.210	1.11360	.38540	-.00480	1.17780	-.04386	-.01290	-.00720	.03000	.65100	.05519
.260	23.340	1.21630	.47640	-.01350	1.30550	-.04457	-.00730	-.00560	.02100	.65300	.06195
.260	25.480	1.30520	.56650	-.01100	1.42200	-.05003	-.00430	-.00650	.01800	.65200	.06552
	GRADIENT	.04607	.00212	.00151	.04712	.00018	-.00014	.00001	-.00000	.01138	-.00047

OA21 B17C7 H4H4F5 W107E23V7R6X9 (RDP136) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 136/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.070	-.09080	.05420	-.02250	-.09440	.04769	-.00100	.00060	.00300	.56200	.05525
.260	-2.010	.00100	.05300	-.01990	-.00060	.05302	-.00110	.00070	.00200	-0.27200	.05334
.260	.070	.09580	.05270	-.01860	.09590	.05286	-.00130	.00060	.00300	.72200	.05350
.260	2.220	.19560	.05730	-.01700	.19770	.04974	-.00130	.00060	.00300	.68100	.05162
.260	4.280	.29990	.06450	-.01470	.29390	.04274	-.00160	.00050	.00500	.66800	.05076
.260	6.400	.38840	.07520	-.01220	.39430	.03145	-.00160	.00050	.00500	.66100	.04991
.260	8.500	.48440	.09070	-.00940	.49250	.01813	-.00190	.00030	.00500	.65600	.04862
.260	10.650	.58800	.11220	-.00770	.59660	.00151	-.00210	.00010	.00700	.65400	.04916
.260	12.740	.68920	.13820	-.00680	.70270	-.01723	-.00230	.00010	.00700	.65300	.04998
.260	14.840	.79640	.17340	-.00780	.81420	-.03644	-.00270	.00060	.00700	.65300	.05094
.260	16.960	.91230	.22160	-.01300	.93740	-.05435	-.00270	.00130	.00700	.65400	.05111
.260	19.080	1.00600	.30080	-.01640	1.04910	-.04466	-.01360	-.00810	.03100	.65500	.05301
.260	21.220	1.10290	.37030	-.02030	1.16220	-.05399	-.01290	-.00780	.02900	.65600	.05554
.260	23.350	1.19450	.45600	-.02960	1.27820	-.05298	-.00790	-.00570	.02200	.65600	.06057
.260	25.480	1.28560	.53870	-.02370	1.37430	-.05783	-.00450	-.00740	.01900	.65600	.06478
	GRADIENT	.04568	.00119	.00068	.04659	-.00063	-.00007	-.00001	.00024	.44086	-.00052

OA21 B17C7 H4M4F5 W107E23V7R6X9 (RDP137) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 10.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = 10.000

RUN NO. 137/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08970	.05570	-.01210	-.09350	.04920	-.00150	.00070	.00500	.60100	.05320
.260	-2.000	.00510	.05380	-.00990	.00320	.05379	-.00140	.00060	.00400	1.78000	.05276
.260	.110	.10100	.05580	-.00750	.10170	.05567	-.00170	.00060	.00500	.67700	.05136
.260	2.180	.19670	.06040	-.00560	.19880	.05289	-.00180	.00060	.00500	.66000	.05054
.260	4.280	.29280	.06800	-.00350	.29700	.04592	-.00180	.00060	.00500	.65400	.04932
.260	6.380	.38700	.07530	-.00100	.39350	.03577	-.00200	.00050	.00505	.65000	.04722
.260	8.480	.48520	.09390	.00070	.49380	.02140	-.00220	.00040	.00600	.64900	.04756
.260	10.590	.58760	.11440	.00120	.59880	.00446	-.00230	.00010	.00700	.64900	.04791
.260	12.700	.69060	.14140	.00040	.70480	-.01391	-.00250	.00020	.00700	.64900	.04898
.260	14.830	.79950	.17780	-.00270	.81820	-.03277	-.00280	.00090	.00800	.65100	.04942
.260	16.970	.91540	.22580	-.00970	.94150	-.05123	-.00290	.00130	.00800	.65300	.05004
.260	19.060	1.00920	.30400	-.01690	1.05310	-.04228	-.01380	-.00770	.03100	.65500	.05301
.260	21.190	1.10480	.37390	-.02040	1.16520	-.05079	-.01280	-.00800	.03100	.65600	.05581
.260	23.310	1.20020	.46170	-.02890	1.26490	-.05104	-.00710	-.00580	.02300	.65800	.06155
.260	25.440	1.27150	.54900	-.02180	1.38150	-.05582	-.00400	-.00740	.01900	.65500	.06552
	GRADIENT	.04573	.00150	.00103	.04668	-.00036	-.00005	-.00009	.00005	-.04855	-.00048

OA21 B17C7 H4M4F5 W107E23V7R6X9 (RDP130) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
SREF =	37.9399 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	20.000

RUN NO. 138/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.080	-.09000	.05750	-.00410	-.09390	.05099	-.00170	.00080	.00500	.63300	.05281
.260	-1.980	.00350	.05570	-.00290	.00160	.05582	-.00150	.00080	.00400	1.31100	.05245
.260	.120	.10170	.05780	-.00200	.10190	.05764	-.00170	.00070	.00400	.65700	.05201
.260	2.220	.19910	.06340	-.00130	.20140	.05565	-.00180	.00080	.00500	.65200	.05030
.260	4.300	.29260	.07110	-.00010	.29710	.04894	-.00200	.00080	.00500	.64900	.04928
.260	6.400	.38710	.08260	.00160	.39390	.03896	-.00210	.00040	.00600	.64800	.04674
.260	8.500	.48270	.09630	.00230	.49170	.02381	-.00210	.00040	.00600	.64800	.04605
.260	10.620	.58290	.11630	.00220	.59440	.00692	-.00250	.00010	.00600	.64800	.04609
.260	12.740	.68670	.14420	-.00050	.70160	-.01084	-.00280	.00010	.00600	.65000	.04629
.260	14.860	.79430	.17940	-.00290	.81360	-.03033	-.00300	.00080	.00600	.65100	.04746
.260	16.970	.90940	.22750	-.00690	.93620	-.04787	-.00280	.00100	.01000	.65300	.04821
.260	19.090	1.00820	.30820	-.01550	1.05290	-.04039	-.01300	-.00740	.03200	.65500	.05144
.260	21.240	1.10560	.37700	-.01950	1.16710	-.04918	-.01250	-.00760	.03100	.65500	.05569
.260	23.340	1.20070	.46510	-.02810	1.28670	-.04868	-.00700	-.00600	.02400	.65700	.06130
.260	25.450	1.27360	.54620	-.02120	1.38480	-.05427	-.00410	-.00660	.01700	.65500	.06833
	GRADIENT	.04564	.00166	.00046	.04684	-.00020	-.00004	-.00002	.00005	-.02991	-.00044

OA21 B17C7 H5M4F5 W^7E23V7R8X9 (RDP139) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 139/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.110	-.09390	.05650	-.02440	-.09770	.04943	-.00140	.00080	.00500	.55700	.05368
.260	-2.020	.00220	.05540	-.01970	.00020	.05551	-.00130	.00080	.00400	29.48600	.05039
.260	.080	.09780	.05490	-.01600	.09790	.05436	-.00150	.00080	.00400	.71000	.03190
.260	2.190	.19740	.05690	-.01210	.19950	.05129	-.00150	.00080	.00300	.67200	.05048
.260	4.280	.29260	.06660	-.00700	.29680	.04468	-.00170	.00060	.00500	.65800	.04899
.260	6.380	.39170	.07760	-.00170	.39790	.03355	-.00190	.00040	.00600	.65100	.04873
.260	8.500	.48930	.09350	.00300	.49780	.02017	-.00200	.00030	.00500	.64700	.04716
.260	10.620	.59200	.11420	.00740	.60290	.00306	-.00250	.00010	.0070!	.64500	.04812
.260	12.710	.69680	.14230	.00980	.71110	-.01450	-.00270	.00050	.00600	.64400	.04639
.260	14.850	.80600	.17810	.01000	.82480	-.03453	-.00310	.00110	.00700	.64500	.05019
.260	16.980	.92440	.22610	.00660	.95010	-.05373	-.00320	.00140	.00700	.64700	.05222
.260	19.090	1.02100	.30540	.00100	1.06480	-.04538	-.01340	-.00730	.03000	.64900	.05428
.260	21.210	1.11410	.37490	-.00450	1.17430	-.05369	-.01320	-.00780	.02900	.65100	.05740
.260	23.340	1.21160	.46530	-.01470	1.29660	-.05295	-.00830	-.00480	.01900	.65400	.06285
.260	25.460	1.29130	.54950	-.01000	1.40210	-.05893	-.00450	-.00690	.01500	.65200	.06735
	GRADIENT	.04621	.00115	.00202	.04717	-.00065	-.00004	-.00002	-.00005	-1.36900	-.00044

OA21 B17C7 H5W4F5 W107E23V7R6X9 (RDP140) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	31.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	10.000

RUN NO. 140/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-4.110	-.08780	.05600	-.01000	-.09140	.04980	-.00130	.00070	.00300	.60900	.05328
.200	-1.990	.00780	.05490	-.00510	.00990	.05478	-.00150	.00080	.00400	.96800	.05272
.200	.080	.10540	.05610	-.00030	.10540	.05597	-.00180	.00080	.00400	.65100	.05288
.200	2.190	.20140	.06220	.00400	.20360	.05453	-.00170	.00080	.00400	.64200	.05040
.200	4.290	.29780	.07050	.00920	.30220	.04804	-.00200	.00080	.00500	.63800	.04945
.200	6.400	.39320	.08290	.01360	.40000	.03656	-.00190	.00050	.00500	.63700	.04702
.200	8.500	.48980	.09770	.01850	.49770	.02441	-.00220	.00030	.00700	.63600	.04737
.200	10.610	.59370	.11850	.01970	.60530	.00710	-.00240	.00030	.00700	.63700	.04832
.200	12.730	.69890	.14710	.01720	.71410	-.01060	-.00270	.00030	.00700	.64000	.04945
.200	14.830	.80660	.18260	.01290	.82670	-.03010	-.00320	.00100	.00700	.64400	.04996
.200	16.960	.91990	.23000	.00540	.94700	-.04847	-.00340	.00140	.00700	.64700	.05009
.200	19.100	1.01670	.30900	.00020	1.06180	-.04087	-.01380	-.00700	.03100	.64900	.05264
.200	21.210	1.11620	.38000	-.00200	1.17810	-.04956	-.01330	-.00750	.03000	.65000	.05643
.200	23.330	1.21320	.48980	-.01090	1.30000	-.04945	-.00730	-.00550	.02100	.65200	.06290
.200	25.470	1.29920	.55810	-.00790	1.41290	-.05490	-.00420	-.00700	.01700	.65100	.06725
	GRADIENT	.04597	.00175	.00226	.04694	-.00016	-.00008	-.00001	.00019	-.01265	-.00048

OA21 B17C7 H5M4F5 W107E23V7R6X9 (RDP141) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	20.000

RUN NO. 141/ 0 RN/L = 1.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.090	-.08570	.03650	.00900	-.08970	.05222	-.00160	.00080	.00400	.67000	.05272
.260	-1.980	.00980	.03800	.00900	.00780	.05636	-.00160	.00090	.00300	.21600	.05289
.260	.090	.10590	.06110	.01200	.10600	.06097	-.00160	.00080	.00400	.60800	.05220
.260	2.220	.20590	.06700	.01260	.20640	.05908	-.00160	.00090	.00400	.62700	.05080
.260	4.260	.29740	.07500	.01430	.30220	.05257	-.00190	.00080	.00400	.63200	.05011
.260	6.400	.39170	.08720	.01720	.39900	.04301	-.00210	.00080	.00500	.63300	.04783
.260	8.520	.48780	.10230	.01820	.49730	.02893	-.00210	.00040	.00700	.63600	.04551
.260	10.620	.58700	.12140	.01890	.59930	.01106	-.00240	.00040	.00700	.63900	.04619
.260	12.730	.68930	.14850	.01530	.70510	-.00709	-.00270	.00030	.00700	.64100	.04690
.260	14.830	.79780	.18490	.01280	.81890	-.02557	-.00310	.00110	.00800	.64400	.04714
.260	16.970	.91760	.23540	.00740	.94640	-.04282	-.00300	.00110	.00800	.64600	.04810
.260	19.090	1.01620	.31330	.00200	1.06280	-.03625	-.01310	-.00650	.03000	.64900	.05183
.260	21.230	1.11600	.38600	.00000	1.18000	-.04437	-.01250	-.00580	.02800	.64900	.05565
.260	23.400	1.21620	.47830	-.00800	1.30610	-.04416	-.00750	-.00540	.02100	.65200	.06130
.260	25.490	1.30680	.56810	-.00540	1.42410	-.04971	-.00500	-.00700	.01700	.65100	.06607
	GRADIENT	.04587	.00200	.00106	.04692	.00007	-.00003	.00000	.00005	.01590	-.00044

OA21 B17C7M12M4F9 W107E23V7R6X9 (RDP142) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 142/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.170	-.28840	.06420	.06420	-.29230	.04311	-.00190	.00010	.00500	.73000	.04609
.160	-2.110	-.18800	.05510	.06990	-.18990	.04821	-.00210	.00000	.00500	.78500	.04621
.160	-.050	-.09470	.05050	.07450	-.09480	.05047	-.00200	.00010	.00400	.93600	.04469
.160	1.980	-.00260	.04900	.08000	-.00090	.04907	-.00210	.00000	.00400	-32.64700	.04349
.160	4.040	.09290	.05130	.08770	.09590	.04473	-.00220	.00000	.00400	.31300	.04238
.160	6.100	.19290	.05670	.09600	.19790	.03586	-.00230	-.00010	.00400	.47100	.04234
.160	8.160	.29010	.06650	.10530	.29860	.02454	-.00230	-.00020	.00400	.51900	.04202
.160	10.290	.38660	.08080	.11490	.39470	.01051	-.00270	-.00020	.00600	.54200	.04140
.160	12.320	.48670	.09910	.12150	.49860	-.00703	-.00300	-.00030	.00700	.55900	.04316
.160	14.390	.58940	.12700	.12550	.60250	-.02548	-.00280	.00000	.00800	.57300	.04346
.160	16.430	.69350	.16000	.12890	.71050	-.04271	-.00290	.00090	.00700	.58300	.04704
.160	18.520	.79800	.21880	.13340	.82620	-.04596	-.00930	-.00190	.02000	.59000	.04799
.160	20.610	.89340	.27410	.14080	.93270	-.05789	-.01100	-.00330	.02300	.59400	.04929
.160	22.680	.97640	.33560	.14870	1.03030	-.06650	-.01090	-.00060	.02100	.59600	.04812
.160	24.730	1.03840	.40250	.16120	1.11160	-.06897	-.00930	-.00310	.02000	.59600	.05062
	GRADIENT	.04618	-.00156	.00278	.04707	.00020	-.00003	-.00001	-.00015	-1.66348	-.00049

OA21 B17C7H13M4F5 W107E23V7R6X9 (RDP143) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9399 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 143/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.140	-.28950	.06580	.05150	-.29350	.04478	-.00200	.00030	.00600	.71400	.04516
.160	-2.100	-.19100	.05670	.06330	-.19300	.04985	-.00210	.00010	.00500	.77000	.04516
.160	-.040	-.09400	.05150	.07670	-.09410	.05152	-.00220	.00020	.00500	.94900	.04498
.160	2.020	.00020	.04920	.08980	.00190	.04917	-.00220	.00010	.00400	-16.35600	.04387
.160	4.090	.09810	.05270	.10450	.10170	.04559	-.00240	.00010	.00500	.27100	.04254
.160	6.130	.19620	.05820	.11870	.20130	.03696	-.00250	.00000	.00500	.43200	.04283
.160	8.220	.29520	.07040	.13270	.30230	.02751	-.00270	-.00020	.00500	.48800	.04060
.160	10.280	.39480	.08580	.14650	.40360	.01402	-.00290	.00000	.00500	.51600	.03963
.160	12.350	.49560	.10650	.15920	.50710	-.00207	-.00330	.00000	.00700	.53400	.04023
.160	14.430	.59410	.13310	.16890	.60850	-.01918	-.00320	.00040	.00700	.54700	.04081
.160	16.430	.69760	.16940	.17350	.71700	-.03544	-.00350	.00120	.00700	.56000	.04259
.160	18.570	.80460	.22820	.17380	.83540	-.03984	-.00890	.00060	.01300	.57300	.04506
.160	20.640	.89440	.28340	.18050	.93690	-.05004	-.01110	-.00070	.02000	.57800	.04677
.160	22.700	.97820	.34510	.18240	1.03560	-.05918	-.01090	.00050	.01900	.58500	.04825
.160	24.750	1.03350	.40950	.19180	1.11000	-.06088	-.00880	-.00380	.02100	.58600	.05110
	GRADIENT	.04696	-.00163	.00644	.04788	.00005	-.00004	-.00002	-.00015	-.87373	-.00032

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 CA21A

(RDP144) (09 JUL 73)

CA21 B17C7 H8 M4F5 W107E23V7R6X9

REFERENCE DATA

BREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	35.000	CANARD =	.000

RUN NO. 144/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.160	-.28400	.06390	.07100	-.28790	.04316	-.00200	.00010	.00600	.74000	.04608
.160	-2.100	-.18810	.05510	.07220	-.19000	.04823	-.00220	.00010	.00600	.78900	.04552
.160	-.080	-.09500	.05110	.07350	-.09510	.05105	-.00220	.00010	.00600	.93400	.04355
.160	2.000	-.00100	.04780	.07560	.00060	.04789	-.00210	.00010	.00500	24.24900	.04467
.160	4.070	.09300	.04940	.07840	.09620	.04274	-.00220	.00000	.00500	.35000	.04426
.160	6.110	.18750	.05380	.08120	.19240	.03550	-.00230	.00000	.00500	.49400	.04178
.160	8.190	.28460	.06550	.08350	.29110	.02432	-.00230	.00000	.00500	.54400	.04062
.160	10.230	.38070	.07660	.08470	.38830	.00780	-.00250	-.00030	.00600	.56900	.04263
.160	12.310	.47930	.09550	.08640	.48870	-.00892	-.00300	-.00020	.00700	.58400	.04367
.160	14.370	.58570	.12400	.08510	.59820	-.02527	-.00300	.00010	.00800	.59700	.04464
.160	16.440	.69760	.16220	.07970	.71500	-.04192	-.00340	.00030	.01000	.60800	.04527
.160	18.510	.81010	.22620	.06930	.84000	-.04275	-.01060	-.00350	.02200	.61900	.04656
.160	20.580	.91510	.28580	.06400	.95720	-.05408	-.01250	-.00410	.02800	.62500	.05099
.160	22.680	.99990	.34970	.06480	1.05740	-.06251	-.01170	-.00290	.02700	.62700	.05217
.160	24.720	1.07360	.42280	.06410	1.15210	-.06501	-.00810	-.00270	.02200	.62900	.05548
	GRADIENT	.04577	-.00176	.00089	.04663	-.00006	-.00001	-.00001	-.00015	1.09966	-.00022

OA21 B17C7 H9 M4F5 W107E23V7R6X9 (ZDP145) (28 AUG 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK 55.000 CANARD = .000

RUN NO. 145/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.160	-.28630	.06370	.06750	-.29020	.04276	-.00200	.00010	.00500	.73500	.04592
.160	-2.060	-.18940	.05360	.07050	-.19120	.04684	-.00230	.00000	.00600	.78500	.04562
.160	-.050	-.09250	.04930	.07290	-.09260	.04927	-.00230	.00000	.00500	.93900	.04536
.160	2.000	-.00020	.04930	.07790	.00140	.04929	-.00220	.00010	.00400	-18.86300	.04356
.160	4.050	.09420	.05110	.08280	.09750	.04438	-.00230	.00000	.00500	.33700	.04288
.160	6.110	.19010	.05620	.08730	.19500	.03570	-.00240	.00000	.00400	.48400	.04230
.160	8.180	.28720	.06620	.09310	.29370	.02464	-.00250	-.00020	.00500	.53300	.04105
.160	10.240	.38090	.07960	.09710	.38900	.01059	-.00270	-.00030	.00500	.55700	.04068
.160	12.340	.48360	.09940	.09970	.49370	-.00624	-.00290	-.00010	.00700	.57500	.04208
.160	14.380	.58490	.12720	.09980	.59790	-.02196	-.00340	.00010	.00800	.58800	.04282
.160	16.450	.69380	.16360	.09590	.71170	-.03949	-.00330	.00060	.00800	.60000	.04400
.160	18.560	.80160	.22520	.08990	.83160	-.04170	-.01080	-.00310	.02100	.61000	.04766
.160	20.590	.89830	.28260	.08760	.94030	-.05143	-.01260	-.00330	.02400	.61500	.04848
.160	22.660	.97620	.34330	.09330	1.03310	-.05936	-.01220	-.00340	.02500	.61600	.05145
.160	24.700	1.03420	.41120	.09870	1.11140	-.05867	-.00800	-.00420	.02000	.61700	.05493
	GRADIENT	.04640	-.00144	.00186	.04726	.00028	-.00002	-.00000	-.00010	-.99631	-.00040

OA21 B17C7H18M4F5 W107E23V7R6X9 (RDP146) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -18.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 146/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.170	-.28850	.06570	.05810	-.29250	.04459	-.00190	.00010	.00500	.72500	.04567
.160	-2.110	-.18860	.05630	.06600	-.19080	.04935	-.00200	.00010	.00500	.77700	.04486
.160	-.050	-.09210	.05180	.07500	-.09220	.05172	-.00220	.00000	.00500	.94900	.04418
.160	2.010	.00220	.04960	.08480	.00390	.04958	-.00220	.00000	.00500	-7.21350	.04404
.160	4.060	.09880	.05150	.09540	.10220	.04437	-.00220	.00000	.00500	.30600	.04384
.160	6.130	.19880	.06090	.10890	.20410	.03930	-.00220	-.00010	.00500	.45500	.04113
.160	8.190	.29710	.07210	.12450	.30440	.02911	-.00220	-.00030	.00500	.49900	.04113
.160	10.240	.39310	.08890	.13890	.40270	.01764	-.00220	-.00020	.00500	.52200	.03927
.160	12.330	.49810	.11050	.15540	.51020	.00165	-.00240	-.00030	.00700	.53700	.04048
.160	14.400	.59790	.13960	.17090	.61390	-.01353	-.00200	-.00020	.00800	.54700	.04006
.160	16.480	.69960	.17370	.18390	.72020	-.03192	-.00160	.00000	.00800	.55500	.04265
	GRADIENT	.04692	-.00171	.00454	.04782	-.00001	-.00004	-.00001	.00000	-.42946	-.00022

OA21 B17C7H18N4F5 W107E23V7R6X9 (RDP147) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-16.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	.000

RUN NO. 147/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.160	-.28690	.06450	.06410	-.29090	.04355	-.00210	.00010	.00500	.73100	.04602
.160	-2.100	-.18830	.05550	.06930	-.19020	.04856	-.00200	.00010	.00500	.78400	.04585
.160	-.040	-.09460	.05050	.07370	-.09460	.05045	-.00200	.00000	.00500	.93600	.04477
.160	2.010	.00040	.04840	.07920	.00210	.04837	-.00210	.00010	.00600	-12.68800	.04475
.160	4.060	.09410	.05230	.08650	.09750	.04553	-.00210	.00000	.00500	.32300	.04193
.160	6.140	.19230	.05750	.09490	.19740	.03668	-.00230	-.00010	.00500	.47200	.04238
.160	8.180	.28990	.06870	.10490	.29670	.02676	-.00250	-.00020	.00500	.51900	.04142
.160	10.260	.38900	.08520	.11530	.39600	.01458	-.00270	-.00030	.00600	.54300	.03973
.160	12.320	.48730	.10490	.12430	.49840	-.00146	-.00320	-.00010	.00700	.55700	.04085
.160	14.380	.59400	.13250	.13180	.60830	-.01921	-.00330	.00030	.00800	.57000	.04348
.160	16.450	.70070	.16820	.13800	.71970	-.03712	-.00380	.00110	.00900	.57900	.04556
.160	18.560	.80270	.22300	.14430	.83190	-.04413	-.00920	.00020	.01800	.58500	.04768
.160	20.610	.88560	.27710	.15550	.92650	-.05242	-.01100	.00010	.01800	.58800	.04642
.160	22.660	.96030	.33370	.16870	1.01470	-.06202	-.01150	.00070	.02000	.58800	.04673
.160	24.730	1.02850	.39640	.18450	1.10000	-.07038	-.01150	-.00270	.02500	.58800	.05053
	GRADIENT	.04626	-.00153	.00266	.04716	.00018	-.00000	-.00001	.00005	-.69553	-.00045

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A (RDP148) (09 JUL 73)

OA21 B17C7H17M4F5 W107E23V7R6X9

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2099 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9059 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 148/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.170	-.29730	.06700	.03170	-.30140	.04521	-.00150	.00020	.00700	.68800	.04607
.160	-2.090	-.19130	.05790	.05510	-.19330	.05092	-.00200	.00010	.00500	.75400	.04528
.160	-.050	-.09050	.05170	.07890	-.09050	.05163	-.00210	.00010	.00500	.97000	.04560
.160	2.020	.00730	.05090	.10520	.00910	.05064	-.00230	.0002.	.00500	-3.57200	.04435
.160	4.070	.10630	.05550	.13080	.11000	.04783	-.00240	.00000	.00500	.21200	.04268
.160	6.160	.21100	.06380	.15690	.21660	.04081	-.00250	-.00010	.00600	.38300	.04257
.160	8.230	.31320	.08010	.18300	.32150	.03447	-.00280	-.00020	.00600	.44000	.03948
.160	10.310	.42160	.09780	.20780	.43230	.02074	-.00300	-.00010	.00700	.47200	.04120
.160	12.390	.52770	.12370	.23040	.54190	.00751	-.00350	.00000	.00900	.49300	.04102
.160	14.470	.63480	.15500	.25060	.65340	-.00846	-.00360	.00050	.00900	.50800	.04271
.160	16.550	.74100	.19410	.26820	.76560	-.02503	-.00360	.00090	.01000	.52000	.04371
.160	18.610	.84870	.24900	.27780	.88380	-.03487	-.00670	.00120	.01400	.53400	.04660
.160	20.670	.93760	.30730	.27850	.98580	-.04351	-.00770	.00040	.01500	.54500	.04999
.160	22.750	1.02380	.37360	.29450	1.08860	-.05148	-.00870	.00200	.01700	.55000	.05240
.160	24.820	1.09740	.44750	.31930	1.18790	-.05464	-.01040	-.00080	.02000	.55000	.05622
	GRADIENT	.04885	-.00146	.01206	.04979	.00024	-.00006	-.00001	-.00019	-.25681	-.00038

OA21 B17C7 M4F5 W10TE23V7R6X0 (RDP149) (09 JUL 75)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5574 INCHES
LREF = 19.2291 INCHES YMRP = .0000 INCHES
BREF = 37.9339 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BOFLAP = -19.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPOBRK = 55.000

RUN NO. 149/ 0 RN/L = 7.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.140	-.28040	.06100	.07340	-.28410	.04059	-.00210	.00020	.00500	.74400	.04723
.160	-2.100	-.18570	.05360	.07220	-.18710	.04692	-.00210	.00020	.00400	.79100	.04562
.160	-.040	-.09320	.04920	.07290	-.09350	.04922	-.00200	.00000	.00500	.93700	.04478
.160	2.020	.00190	.04720	.07220	.00350	.04713	-.00210	.00000	.00400	-6.76100	.04456
.160	4.070	.09570	.04900	.07250	.09900	.04213	-.00230	.00000	.00400	.58000	.04355
.160	6.140	.18710	.05410	.07380	.19180	.03383	-.00220	.00000	.00400	.50600	.04093
.160	8.220	.28430	.06230	.07450	.29030	.02107	-.00230	-.00030	.00500	.55500	.04095
.160	10.290	.38120	.07580	.07530	.38660	.00673	-.00260	-.00050	.00500	.57800	.04048
.160	12.330	.48120	.09440	.07620	.49030	-.01055	-.00320	-.00050	.00700	.59200	.04128
.160	14.360	.58330	.12070	.07280	.59500	-.02791	-.00340	-.00030	.00900	.60400	.04244
.160	16.440	.69650	.15650	.06660	.71230	-.04711	-.00360	.00070	.00600	.61400	.04467
.160	18.520	.80140	.22100	.05690	.83010	-.04502	-.01120	-.00430	.02200	.62300	.04656
.160	20.610	.90620	.28410	.05150	.95000	-.05785	-.01240	-.00530	.02500	.62900	.04818
.160	22.670	1.00390	.34730	.05070	1.06020	-.06652	-.01260	-.00470	.02900	.63200	.05324
.160	24.730	1.08100	.42460	.04710	1.15950	-.06876	-.00600	-.00500	.02100	.63400	.05811
	GRADIENT	.04573	-.00148	-.00009	.04658	.00016	-.00002	-.00003	-.00010	-.40384	-.00041

OA21 B17C7H17M4F5 W107E23V7R6X9 (RDP150) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 190/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.070	-.10120	.05950	-.05420	-.10520	.05223	-.00130	.00100	.00400	.46000	.05354
.160	-2.010	.00150	.05660	-.02940	-.00040	.05690	-.00150	.00090	.00300	-22.48500	.05245
.160	.090	.09690	.05660	-.00630	.09900	.05666	-.00140	.00100	.00400	.87500	.05130
.160	2.120	.19720	.06250	.01910	.19940	.05518	-.00170	.00090	.00400	.61400	.05080
.160	4.180	.29990	.07170	.04430	.30430	.04962	-.00180	.00070	.00400	.59800	.05073
.160	6.290	.40410	.08660	.07010	.41110	.04226	-.00210	.00040	.00400	.58700	.05038
.160	8.310	.50610	.10690	.09520	.51660	.03455	-.00240	.00030	.00500	.58200	.04697
.160	10.410	.60920	.13540	.12270	.62360	.02307	-.00280	.00070	.00700	.57700	.04514
.160	12.470	.70900	.16750	.14480	.72640	.01034	-.00310	.00110	.00800	.57600	.04397
.160	14.580	.81480	.20270	.16570	.81960	-.00656	-.00320	.00120	.00900	.57700	.04673
.160	16.630	.92490	.24820	.18280	.95660	-.02683	-.00340	.00180	.00900	.57900	.04839
.160	18.700	1.02930	.31140	.18840	1.07480	-.03510	-.00820	.00180	.01100	.58500	.04959
.160	20.760	1.10750	.37630	.19470	1.16900	-.04074	-.00910	.00160	.01400	.58600	.05267
.160	22.630	1.18710	.44860	.21600	1.26810	-.04732	-.00990	.00230	.01800	.58600	.05662
.160	24.690	1.22990	.52410	.24420	1.33630	-.04221	-.00970	-.00120	.01900	.58200	.05742
	GRADIENT	.04837	.00146	.01150	.04938	-.00013	-.00006	-.00003	.00005	1.13779	-.00135

OA21 B17C7H18N4FS W107E23VTR0X9 (RDP191) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2799 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9356 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	59.000	CANARD =	.000

RUN NO. 151/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.080	-.09310	.05080	-.02600	-.09690	.05016	-.00120	.00080	.00200	.55000	.05387
.160	-2.160	-.00250	.05420	-.02080	-.00450	.05416	-.00150	.00090	.00300	-1.03400	.05272
.160	.030	.09530	.05520	-.01640	.09530	.05516	-.00160	.00090	.00300	.71300	.05218
.160	2.110	.19210	.05660	-.01100	.19410	.05171	-.00150	.00090	.00300	.67000	.05121
.160	4.150	.28700	.06720	-.00370	.29110	.04627	-.00160	.00080	.00400	.65400	.05006
.160	6.230	.38160	.07940	.00490	.38800	.03752	-.00190	.00080	.00300	.64500	.04890
.160	8.280	.48010	.09660	.01520	.48900	.02641	-.00230	.00050	.00400	.63800	.04774
.160	10.340	.57430	.11840	.02710	.58620	.01339	-.00250	.00050	.00500	.63200	.04616
.160	12.420	.67090	.14640	.03540	.69250	-.00267	-.00280	.00090	.00500	.63100	.04620
.160	14.470	.77770	.17990	.04230	.79800	-.02015	-.00300	.00100	.00700	.63000	.04796
.160	16.550	.88030	.22330	.05050	.90750	-.03660	-.00350	.00200	.00800	.62900	.04864
.160	18.670	.97750	.28250	.05970	1.01650	-.04537	-.00840	.00180	.01600	.62800	.04910
.160	20.700	1.05480	.34520	.07180	1.10880	-.05007	-.01190	-.00150	.02200	.62500	.04999
.160	22.740	1.11980	.40690	.08680	1.18000	-.05775	-.01240	-.00080	.02400	.62200	.05064
.160	24.800	1.16730	.46190	.10660	1.26180	-.05213	-.01000	-.00730	.02800	.61800	.05400
	GRADIENT	.04905	.00122	.00263	.04701	-.00050	-.00007	-.00002	.00019	.09592	-.00044

OA21 B17C7 H9 H4F5 W107E21V7R6X9 (RDP152) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-16.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 152/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.050	-.08970	.05560	-.02400	-.09340	.04915	-.00140	.00100	.00400	.55900	.05349
.160	-1.990	.00490	.05370	-.01970	.00080	.05391	-.00140	.00090	.00400	3.35000	.05249
.160	.080	.09820	.05430	-.01630	.09820	.05423	-.00140	.00090	.00400	.71000	.05191
.160	2.120	.19270	.05840	-.01300	.19470	.05128	-.00160	.00080	.00400	.67400	.05142
.160	4.150	.28710	.06720	-.00690	.29120	.04626	-.00170	.00070	.00500	.66100	.04961
.160	6.220	.38170	.07730	-.00340	.38780	.03548	-.00180	.00070	.00400	.65300	.04917
.160	8.290	.47510	.09400	.00200	.48370	.02455	-.00200	.00040	.00500	.64800	.04716
.160	10.340	.57010	.11330	.00680	.58120	.00913	-.00230	.00050	.00600	.64500	.04763
.160	12.420	.66810	.14000	.00940	.68360	-.00715	-.00240	.00100	.00600	.64400	.04773
.160	14.480	.77080	.17490	.00980	.78990	-.02336	-.00260	.00130	.00600	.64500	.04756
.160	16.550	.88120	.21870	.00370	.90700	-.04131	-.00290	.00180	.00600	.64800	.04978
.160	18.640	.98480	.28980	-.00200	1.02560	-.04033	-.01200	-.00260	.02600	.65000	.05239
.160	20.290	1.07150	.35400	-.00100	1.12750	-.04756	-.01290	-.00320	.02700	.65000	.05350
.160	22.730	1.11730	.42340	.00920	1.19420	-.04130	-.00920	-.00580	.02200	.64600	.05625
.160	24.780	1.16950	.49140	.02020	1.26780	-.04417	-.00570	-.00590	.02000	.64300	.06139
	GRADIENT	.04992	.00136	.00180	.04667	-.00041	-.00004	-.00003	.00010	-.11992	-.00045

OA21 B17C7 H8 H4F3 W107E21VTR6X9 (RDP193) (09 JUL 73)

REFERENCE DATA

SREF =	4.4115 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	.000

RUN NO. 193/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.070	-.08820	.05650	-.02010	-.00200	.05012	-.00130	.00070	.00300	.58900	.05343
.160	-2.000	.00370	.05380	-.01780	.00160	.05376	-.00140	.00090	.00300	4.22500	.05256
.160	.030	.09710	.05370	-.01770	.09710	.05365	-.00140	.00080	.00400	.71700	.05272
.160	2.080	.18780	.05800	-.01600	.18970	.05217	-.00150	.00070	.00300	.68000	.05051
.160	4.160	.28440	.06990	-.01310	.28850	.04504	-.00170	.00080	.00400	.66800	.04922
.160	6.210	.37790	.07880	-.00980	.38360	.03553	-.00180	.00090	.00400	.65900	.04893
.160	8.270	.47180	.09240	-.00740	.48000	.02361	-.00200	.00090	.00400	.65500	.04723
.160	10.320	.56880	.11180	-.00480	.57770	.00844	-.00230	.00040	.00800	.65200	.04713
.160	12.390	.66840	.13650	-.00380	.68070	-.00778	-.00240	.00080	.00900	.65100	.04726
.160	14.490	.77300	.17500	-.00790	.79170	-.02588	-.00250	.00080	.00800	.65300	.04918
.160	16.530	.88010	.21650	-.01560	.90540	-.04209	-.00260	.00170	.00800	.65800	.05048
.160	18.610	.98650	.28870	-.02120	1.02090	-.04199	-.01230	-.00300	.02600	.65700	.05269
.160	20.670	1.08130	.35510	-.02270	1.13710	-.04954	-.01410	-.00410	.02900	.65700	.05620
.160	22.730	1.14770	.42930	-.01900	1.22450	-.04754	-.00930	-.00250	.02100	.65500	.05865
.160	24.790	1.20410	.50200	-.01310	1.30360	-.04929	-.00780	-.00400	.02100	.65300	.06132
	GRADIENT	.04515	.00118	.00077	.04611	-.00057	-.00004	-.00002	.00010	-.18166	-.00050

OA21 B17C7H13M4F3 W107E23VTR6X9 (RDP154) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9399 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0400 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	.000

RUN NO. 154/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.080	-.09350	.05680	-.03810	-.09860	.04999	-.00130	.00080	.00400	.50800	.05358
.160	-2.080	.00240	.05920	-.02520	.00040	.05531	-.00130	.00090	.00400	20.80900	.05225
.160	.040	.09810	.06530	-.01280	.09620	.06525	-.00150	.00090	.00400	.69900	.05226
.160	2.110	.19290	.07990	.00010	.19500	.05275	-.00160	.00080	.00500	.64900	.05047
.160	4.160	.29120	.09810	.01370	.29540	.04882	-.00170	.00080	.00400	.63200	.05034
.160	6.230	.38800	.08080	.02790	.39450	.03837	-.00200	.00070	.00400	.62300	.04896
.160	8.310	.48740	.09800	.04470	.49680	.02754	-.00250	.00040	.00500	.61800	.04686
.160	10.350	.57880	.12010	.05910	.59100	.01411	-.00270	.00070	.00500	.61200	.04491
.160	12.430	.67910	.14630	.07120	.68470	-.00337	-.00300	.00100	.00600	.61200	.04543
.160	14.520	.77800	.16030	.08120	.79040	-.02054	-.00310	.00140	.00600	.61200	.04497
.160	16.570	.88840	.22450	.08310	.90980	-.03657	-.00290	.00220	.00700	.61[illegible]	.04718
.160	18.650	.98480	.28680	.08830	1.02480	-.04322	-.00780	.00150	.01800	.61800	.04915
.160	20.730	1.08800	.35280	.09780	1.12480	-.04851	-.01110	-.00060	.02100	.61700	.04955
.160	22.780	1.14100	.42520	.10080	1.21580	-.05170	-.00970	-.00170	.02100	.61900	.05340
.160	24.840	1.18080	.49510	.11280	1.27810	-.04830	-.00720	-.00250	.01800	.61700	.05898
	GRADIENT	.04704	.00134	.00629	.04801	-.00044	-.00005	-.00000	-.00005	-.97396	-.00040

OA21 B17C7H12H4F3 W107E23V7R6X9 (RDP155) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YRP =	.0000 INCHES		
BREF =	37.9939 INCHES	ZRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 155/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.040	-.08620	.09680	-.02640	-.09200	.09030	-.00130	.00090	.00300	.54400	.05350
.160	-1.960	.00280	.05370	-.02070	.00080	.05379	-.00160	.00090	.00300	8.39300	.05301
.160	.080	.08780	.05520	-.01590	.09770	.05510	-.00150	.00080	.00300	.70900	.05139
.160	2.100	.19150	.05880	-.01000	.19380	.05163	-.00170	.00080	.00400	.66900	.05121
.160	4.170	.29080	.06710	-.00240	.29300	.04591	-.00180	.00070	.00400	.65200	.04980
.160	6.250	.38370	.07820	.00520	.38990	.03996	-.00190	.00090	.00470	.64400	.04814
.160	8.280	.47980	.09510	.01420	.48550	.02536	-.00210	.00080	.00600	.63900	.04735
.160	10.360	.57760	.11440	.02370	.58500	.00633	-.00240	.00090	.00500	.63400	.04798
.160	12.430	.67140	.14110	.03110	.68610	-.00677	-.00290	.00100	.00800	.63300	.04834
.160	14.510	.77300	.17800	.03540	.79440	-.02378	-.00280	.00110	.00800	.63300	.04892
.160	16.570	.87310	.21660	.04000	.90050	-.04204	-.00270	.00220	.00600	.63300	.04883
.160	18.630	.98080	.27920	.04600	1.01880	-.04911	-.00890	.00130	.01700	.63300	.05006
.160	20.720	1.05960	.34290	.05610	1.11240	-.05420	-.01270	-.00310	.02700	.63100	.05056
.160	22.780	1.13600	.41310	.06640	1.20730	-.05695	-.01270	-.00290	.02300	.62900	.05323
.160	24.820	1.17280	.48430	.08370	1.26780	-.05269	-.00780	-.00190	.01700	.62500	.05557
	GRADIENT	.04999	.00126	.00296	.04696	-.00053	-.00005	-.00002	.00015	-.36477	-.00048

OA21 B17C7H18N4F5 W107E23V7R6X9 (RDP156) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2259 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9399 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 196/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.070	-.09540	.03730	-.03270	-.09830	.09042	-.00130	.00100	.00400	.52800	.05479
.160	-2.000	.00810	.05430	-.02280	.00020	.05443	-.00140	.00090	.00400	31.82400	.05390
.160	.090	.03600	.05500	-.01450	.03800	.05501	-.00160	.00100	.00400	.70500	.05232
.160	2.120	.19320	.05850	-.00440	.19530	.09136	-.00160	.00090	.00400	.65800	.05297
.160	4.120	.29910	.06880	.00630	.29330	.04775	-.00180	.00070	.00400	.64100	.05001
.160	6.240	.36700	.08110	.01970	.36350	.03855	-.00200	.00040	.00500	.63100	.04942
.160	8.310	.48800	.09880	.03450	.49510	.02739	-.00220	.00040	.00400	.62400	.04864
.160	10.360	.57940	.12530	.05230	.59210	.01706	-.00270	.00060	.00800	.61700	.04685
.160	12.440	.68180	.14990	.06750	.69790	-.00049	-.00300	.00060	.00700	.61400	.04636
.160	14.510	.78120	.18440	.08230	.80250	-.01713	-.00280	.00120	.00700	.61200	.04589
.160	16.590	.88580	.22780	.09370	.91370	-.03485	-.00290	.00220	.00700	.61200	.04681
.160	18.650	.98780	.27810	.10870	1.02480	-.05236	-.00300	.00170	.00900	.61000	.04826
.160	20.740	1.08280	.34860	.12590	1.13600	-.05742	-.01060	.00070	.02100	.60900	.05140
.160	22.780	1.14850	.41070	.14090	1.21800	-.06571	-.01040	.00190	.01800	.60700	.05313
.160	24.880	1.20870	.47990	.16790	1.29840	-.07279	-.00490	.00440	.00500	.60200	.05810
	GRADIENT	.04670	.00132	.00469	.04768	-.00041	-.00006	-.00003	-.00000	-1.50040	-.00051

OA21 B17C7N15N4F5 W107E23V7R6X9 (RDP137) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.9974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPCBRK =	55.000	CANARD =	.000

RUN NO. 157/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.080	-.08670	.05570	-.01690	-.08250	.04934	-.00110	.00090	.00200	.57800	.05372
.160	-1.980	.00370	.05510	-.01680	.00190	.05328	-.00130	.00100	.00300	3.07700	.05364
.160	.050	.09450	.05440	-.01730	.09450	.05442	-.00150	.00100	.00400	.71700	.05189
.160	2.080	.19070	.05820	-.01720	.19270	.05127	-.00160	.00080	.00400	.66200	.05122
.160	4.130	.28520	.06610	-.01570	.28730	.04556	-.00170	.00070	.00400	.67000	.04948
.160	6.200	.37770	.07670	-.01390	.38380	.03549	-.00190	.00040	.00500	.66300	.04878
.160	8.250	.47080	.09080	-.01160	.47870	.02428	-.00210	.00040	.00400	.65800	.04598
.160	10.330	.56700	.11100	-.00980	.57770	.00759	-.00230	.00030	.00600	.65800	.04742
.160	12.390	.66800	.13770	-.01100	.68010	-.00844	-.00260	.00070	.00500	.65500	.04774
.160	14.450	.77490	.17240	-.01650	.79350	-.02639	-.00270	.00120	.00600	.65700	.05038
.160	16.530	.88720	.21660	-.02270	.91220	-.04471	-.00320	.00180	.00900	.65900	.05166
.160	18.610	.95110	.28740	-.03090	1.03100	-.04392	-.01220	-.00330	.02600	.66000	.05253
.160	20.660	1.07740	.35040	-.02890	1.13170	-.05237	-.01430	-.00470	.03100	.65900	.05410
.160	22.750	1.19840	.42980	-.02690	1.23540	-.05199	-.00940	-.00300	.02200	.65800	.05853
.160	24.870	1.22840	.50340	-.02540	1.32630	-.05832	-.00760	-.00410	.02100	.65800	.06374
	GRADIENT	.04549	.00126	.00024	.04645	-.00047	-.00007	-.00003	.00024	-.14573	-.00053

OA21 B17C7H11H4F5 W107E23V7R6X9 (RDP150) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	SOFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	.000

RUN NO. 150/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.070	-.09160	.05580	-.01930	-.09530	.04916	-.00140	.00090	.00300	.37500	.05406
.160	-2.000	.00250	.05240	-.01800	.00070	.05255	-.00150	.00090	.00400	9.64400	.05396
.160	.040	.09500	.05350	-.01770	.09500	.05344	-.00160	.00080	.00400	.71800	.05294
.160	2.090	.19110	.05690	-.01700	.19320	.05193	-.00170	.00070	.00400	.66200	.05060
.160	4.140	.28300	.06550	-.01440	.28700	.04488	-.00160	.00080	.00400	.66800	.05049
.160	6.230	.38110	.07640	-.01130	.38720	.03463	-.00200	.00040	.00500	.66000	.04951
.160	8.310	.47130	.09230	-.00850	.47970	.02322	-.00200	.00060	.00400	.65600	.04712
.160	10.330	.56720	.11200	-.00420	.57810	.00846	-.00250	.00040	.00800	.65200	.04755
.160	12.430	.66720	.13970	-.00420	.68160	-.00717	-.00250	.00090	.00500	.65200	.04689
.160	14.490	.77130	.17270	-.00680	.79000	-.02531	-.00250	.00140	.00500	.65300	.04935
.160	16.550	.88340	.21670	-.01270	.90660	-.04586	-.00280	.00160	.00700	.65500	.05105
.160	18.610	.98410	.28700	-.02080	1.02420	-.04202	-.01220	-.00290	.02500	.65700	.05335
.160	20.670	1.07010	.35490	-.02000	1.12650	-.04573	-.01450	-.00580	.02900	.65600	.05463
.160	22.730	1.13780	.42640	-.01480	1.21420	-.04651	-.01030	-.00270	.02300	.65400	.05835
.160	24.770	1.19050	.49590	-.00700	1.28070	-.04853	-.00730	-.00410	.02000	.65100	.06314
	GRADIENT	.01572	.00126	.00053	.01666	-.00045	-.00005	-.00002	.00010	-.43522	-.00051

OA21 B17C7M11M4FS W107E23V7R6X9 (RDP159) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVLN =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 199/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.170	-.28690	.06600	.07190	-.29040	.04303	-.00210	.00000	.00600	.74000	.04611
.160	-2.110	-.19120	.05430	.07180	-.19310	.04723	-.00220	-.00010	.00500	.78600	.04692
.160	-.040	-.09780	.05030	.07400	-.09780	.05030	-.00220	-.00010	.00500	.92800	.04432
.160	2.000	-.00380	.04810	.07480	-.00210	.04829	-.00230	-.00010	.00500	13.62800	.04447
.160	4.040	.08800	.04980	.07720	.09130	.04352	-.00230	-.00030	.00500	.33800	.04335
.160	6.100	.18430	.05480	.07940	.18900	.03491	-.00230	-.00030	.00400	.49500	.04225
.160	8.180	.28050	.06420	.08260	.28680	.02365	-.00250	-.00040	.00500	.54300	.04109
.160	10.240	.37820	.07780	.08550	.38600	.00929	-.00280	-.00040	.00500	.56800	.04182
.160	12.290	.47810	.09670	.08770	.48770	-.00730	-.00330	-.00030	.00600	.58300	.04236
.160	14.360	.57930	.12390	.08620	.59190	-.02371	-.00340	.00010	.00600	.59600	.04264
.160	16.460	.69240	.16010	.08230	.70940	-.04267	-.00340	.00040	.00400	.60700	.04539
.160	18.490	.79660	.22390	.07420	.82640	-.04104	-.01110	-.00390	.02200	.61600	.04717
.160	20.590	.89880	.28180	.07020	.94050	-.05228	-.01270	-.00440	.02300	.62200	.04973
.160	22.660	.97980	.34250	.07330	1.03610	-.06148	-.01290	-.00330	.02500	.62300	.05245
.160	24.730	1.03610	.41650	.07370	1.13350	-.06362	-.00950	-.00320	.02300	.62600	.05664
	GRADIENT	.04561	-.00169	.00066	.04649	.00010	-.00002	-.00003	-.00010	.58744	-.00039

OA21 B17C7N10M4F5 W107E23V7R3X9 (RDP160) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 160/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.140	-.28270	.06320	.07210	-.28630	.04260	-.00190	-.00010	.00500	.74200	.04596
.160	-2.090	-.19020	.05420	.07250	-.19210	.04724	-.00210	-.00020	.00600	.78800	.04647
.160	-.040	-.09510	.04950	.07260	-.09510	.04945	-.00200	-.00020	.00500	.93060	.04502
.160	1.990	-.00230	.04750	.07320	-.00060	.04756	-.00200	-.00010	.00500	-25.46100	.04466
.160	4.090	.09060	.04910	.07470	.09390	.04265	-.00210	-.00030	.00500	.35600	.04320
.160	6.130	.18780	.05370	.07670	.19250	.03342	-.00230	-.00040	.00500	.50300	.04282
.160	8.170	.28150	.06170	.07850	.28740	.02106	-.00230	-.00050	.00600	.54900	.04315
.160	10.240	.37950	.07610	.08040	.38700	.00744	-.00260	-.00060	.00600	.57300	.04204
.160	12.320	.48080	.09670	.08070	.49040	-.00811	-.00310	-.00050	.00800	.58900	.04206
.160	14.390	.59010	.12570	.07720	.60290	-.02490	-.00320	-.00010	.00700	.60200	.04303
.160	16.450	.70140	.16160	.07180	.71850	-.04365	-.00380	.00020	.01000	.61300	.04587
.160	18.520	.80440	.22450	.06480	.83410	-.04277	-.01130	-.00420	.02300	.62100	.04591
.160	20.600	.90930	.28150	.06070	.95030	-.05638	-.01280	-.00410	.02700	.62600	.04854
.160	22.660	.99900	.34500	.05890	1.05480	-.06655	-.01230	-.00260	.02600	.62900	.05094
.160	24.730	1.07850	.42020	.05640	1.15540	-.06958	-.00780	-.00360	.02000	.63100	.05622
	GRADIENT	.04567	-.00171	.00029	.04654	.00002	-.00001	-.00001	-.00005	-1.31442	-.00036

OA21 B17C7H16M4F5 W107E23V7R6X9 (RDP161) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 161/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.120	-.28680	.06430	.05650	-.29250	.04342	-.00200	-.00010	.00600	.72000	.04612
.160	-2.100	-.18980	.05510	.06550	-.19150	.04811	-.00210	-.00020	.00500	.77500	.04661
.160	-.040	-.09420	.05190	.07460	-.09420	.05083	-.00220	-.00020	.00500	.94100	.04533
.160	2.010	.00000	.04980	.08400	.00160	.04865	-.00220	-.00030	.00500	-17.68000	.04467
.160	4.070	.09620	.05170	.09560	.09970	.04476	-.00230	-.00020	.00400	.29600	.04334
.160	6.140	.19710	.05680	.10920	.20230	.03740	-.00260	-.00030	.00500	.45100	.04261
.160	8.200	.29700	.07070	.12390	.30410	.02767	-.00280	-.00040	.00500	.49900	.04122
.160	10.300	.39510	.08750	.13980	.40440	.01 [illegible]	-.00310	-.00060	.00600	.52200	.03970
.160	12.330	.49950	.10880	.15540	.51120	-.00036	-.00350	-.00020	.00600	.53700	.04104
.160	14.400	.60030	.13700	.17100	.61550	-.01663	-.00360	.00010	.00700	.54700	.04142
.160	16.470	.70650	.17160	.18530	.72620	-.03579	-.00320	.00070	.00700	.55500	.04388
.160	18.570	.81590	.22670	.19450	.84560	-.04496	-.00280	.00070	.01500	.56500	.04665
.160	20.640	.90390	.27930	.20870	.94430	-.05736	-.01040	.00010	.01900	.56800	.04721
.160	22.700	.98720	.33780	.22370	1.04110	-.06937	-.00970	.00170	.01700	.57000	.04777
.160	24.770	1.06530	.40200	.24290	1.13570	-.08144	-.00980	.00200	.01900	.57100	.05140
	GRADIENT	.04681	-.00154	.00472	.04770	.00015	-.00003	-.00001	-.00020	-.94086	-.00037

DATE 02 OCT 73 TABULATED SOURCE DATA NAAL-705 OA21A (RDP162) (09 JUL 73)

OA21 B17C7 H7M4F5 W107E23V7R6 X9

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9559 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0455 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-18.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 162/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.160	-.29040	.06390	.05510	-.29430	.04273	-.00190	.00000	.00500	.71800	.04725
.160	-2.120	-.19560	.05560	.06210	-.19750	.04839	-.00200	-.00020	.00500	.76100	.04627
.160	-.050	-.09860	.04900	.07000	-.09870	.04894	-.00210	-.00020	.00500	.91900	.04700
.160	2.010	-.00220	.04930	.07790	-.00050	.04942	-.00210	-.00030	.00500	-8.31600	.04463
.160	4.040	.09230	.05080	.08720	.09570	.04417	-.00230	-.00020	.00600	.31400	.04416
.160	6.120	.19280	.05580	.09690	.19770	.03500	-.00240	-.00030	.00600	.46900	.04315
.160	8.180	.29120	.06460	.10570	.29740	.02252	-.00270	-.00060	.00600	.51900	.04279
.160	10.250	.39320	.07940	.11460	.40110	.00817	-.00290	-.00060	.00700	.54400	.04169
.160	12.330	.49770	.09840	.12110	.50720	-.01016	-.00350	-.00060	.00700	.56100	.04376
.160	14.400	.60860	.12760	.12700	.62120	-.02778	-.00380	-.00040	.01000	.57400	.04487
.160	16.470	.72380	.16500	.12940	.74090	-.04696	-.00430	.00060	.01000	.58500	.04771
.160	18.550	.83610	.22920	.12610	.86560	-.04874	-.01160	-.00330	.02200	.59800	.05080
.160	20.640	.94840	.29300	.12590	.99080	-.06011	-.01310	-.00420	.02400	.60300	.05343
.160	22.710	1.05430	.36290	.12610	1.11260	-.07244	-.01260	-.00210	.02200	.60800	.05772
.160	24.790	1.16550	.45540	.11900	1.24910	-.07547	-.00740	-.00350	.02000	.61400	.06268
	GRADIENT	.670	-.00158	.00390	.04759	.00019	-.00004	-.00002	.00010	-.48436	-.00038

OA21 B17CTH15M4F5 W107E23V7R6 X9 (RCP163) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9399 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = .000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 163/ 0 SM/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.150	-.28530	.06370	.06190	-.28020	.04206	-.00170	.00000	.00700	.72800	.0473
.160	-2.100	-.19060	.05450	.06640	-.19250	.04734	-.00190	-.00020	.00700	.77800	.04600
.160	-.020	-.08270	.05050	.07370	-.08280	.05055	-.00190	-.00020	.00800	.94200	.04544
.160	2.030	.00170	.04890	.08010	.00340	.04800	-.00180	-.00020	.00500	-7.81500	.04519
.160	4.080	.08950	.05120	.08880	.10290	.04390	-.00210	-.00030	.00800	.53900	.04416
.160	6.130	.19350	.05500	.09440	.19840	.03463	-.00220	-.00030	.00500	.47400	.04362
.160	8.190	.29580	.06510	.10150	.30210	.02234	-.00240	-.00050	.00800	.52800	.04347
.160	10.260	.39880	.07930	.10930	.40470	.00734	-.00280	-.00060	.00800	.55000	.04317
.160	12.350	.50080	.09860	.11880	.51040	-.01081	-.00340	-.00060	.00800	.56500	.04422
.160	14.410	.60880	.12720	.12210	.62130	-.02824	-.00380	-.00020	.01000	.57700	.04424
.160	16.470	.72570	.16440	.12420	.74220	-.04803	-.00410	.00080	.01000	.58800	.04690
.160	18.580	.83720	.22890	.11940	.86680	-.04973	-.01150	-.00320	.02200	.59900	.04879
.160	20.640	.94330	.28970	.11930	.98490	-.06140	-.01320	-.00430	.02400	.60500	.05130
.160	22.760	1.04640	.36010	.12080	1.10430	-.07280	-.01270	-.00280	.02300	.60900	.05400
.160	24.800	1.14440	.44680	.11510	1.22630	-.07444	-.00830	-.00490	.01900	.61500	.06021
	GRADIENT	.04672	-.00149	.00308	.04780	.00018	-.00003	-.00003	-.00019	-.45552	-.00039

OA21 B17C7H19N4F5 W107E23V7R6 X9 (RDP164) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.3974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 164/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.100	-4.170	-.28490	.06400	.06830	-.28880	.04312	-.00190	-.00010	.00500	.73800	.04634
.100	-2.100	-.18770	.05580	.07150	-.18980	.04870	-.00210	-.00010	.00500	.78800	.04544
.100	-.080	-.09450	.04890	.07330	-.09450	.04885	-.00220	-.00020	.00500	.93500	.04808
.100	1.990	-.00060	.04880	.07580	.00120	.04880	-.00240	-.00010	.00500	-21.67500	.04375
.100	4.040	.09280	.05040	.08090	.09610	.04379	-.00240	-.00020	.00500	.33900	.04290
.100	6.090	.18630	.05570	.08570	.19120	.03580	-.00230	-.00010	.00500	.48400	.04209
.100	8.180	.28610	.06570	.09140	.29280	.02433	-.00250	-.00030	.00500	.53400	.04108
.100	10.240	.38260	.07880	.09610	.39030	.00964	-.00280	-.00050	.00600	.55900	.04179
.100	12.290	.48320	.09790	.10000	.49300	-.00717	-.00330	-.00020	.00600	.57500	.04286
.100	14.390	.58790	.12670	.10430	.60100	-.02343	-.00360	.00000	.00700	.58500	.04283
.100	16.450	.69230	.16160	.10610	.70970	-.04102	-.00340	.00090	.00700	.59400	.04332
.100	18.520	.79670	.22470	.10230	.82690	-.04007	-.05100	-.00320	.02000	.60400	.04494
.100	20.620	.89770	.28180	.10170	.93940	-.05262	-.01220	-.00370	.02400	.60900	.04592
.100	22.630	.97130	.34040	.10730	1.02750	-.06001	-.01160	-.00430	.02400	.61100	.05006
.100	24.720	1.03880	.41080	.11130	1.11520	-.06121	-.00780	-.00420	.01900	.61300	.05485
	GRADIENT	.04596	-.00166	.00144	.04684	.00007	-.00006	-.00001	-.00000	-1.13336	-.00041

OA21 B17C7 H8H4F5 W107E23V:R6 X9 (RDP185) (09 JUL 73)

REFERENCE DATA

SREF =	4.4519 SQ.FT.	XMRP =	43.9074 INCHES
LREF =	99.2000 INCHES	YMRP =	.0000 INCHES
SREF =	99.0000 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0400 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVCN =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPOBRK =	55.000	CANARD =	.000

RUN NO. 100/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
[illegible]	[illegible]	[illegible]	[illegible]	.06230	-.29370	.04174	-.00190	-.00010	.00700	.72700	.04784
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.19730	.04796	-.00210	-.00010	.00800	.77300	.04616
[illegible]	[illegible]	[illegible]	[illegible]	.07030	-.08080	.04961	-.00220	-.00020	.00800	.91100	.04530
[illegible]	[illegible]	[illegible]	[illegible]	.07440	-.00250	.04875	-.00230	-.00020	.00900	11.20000	.04462
[illegible]	[illegible]	[illegible]	[illegible]	.07950	.08330	.04332	-.00240	-.00020	.00900	.33500	.04350
[illegible]	[illegible]	[illegible]	[illegible]	.08520	.19030	.03392	-.00240	-.00030	.00500	.48400	.04206
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.29070	.02236	-.00270	-.00040	.00600	.53500	.04144
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.38820	.00677	-.00310	-.00050	.00700	.55800	.04189
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.49800	-.01045	-.00390	-.00050	.00800	.57800	.04205
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.60450	-.02884	-.00420	-.00010	.00800	.58700	.04413
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.72380	-.04774	-.00430	.00000	.00800	.59800	.04530
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.84480	-.04807	-.01230	-.00400	.02100	.60800	.04767
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.96170	-.05876	-.01380	-.00480	.02500	.61400	.05084
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.08280	-.07144	-.01390	-.00390	.02300	.61900	.05583
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.20610	-.07180	-.00850	-.00580	.02000	.62500	.05875
	GRADIENT	[illegible]	-.00180	.00206	.04717	.00019	-.00006	-.00001	-.00024	.46796	-.00049

OA21 B17CTH14M4F7 W10TE23V7R6 X9 (RDP166) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9359 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 166/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLN	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.160	-.28780	.06330	.06490	-.29170	.04231	-.00080	-.00020	.00600	.73100	.04711
.160	-2.090	-.19360	.05440	.06720	-.19550	.04736	-.00090	-.00020	.00700	.77900	.04692
.160	-.020	-.08720	.05020	.07040	-.08720	.05025	-.00090	-.00030	.00800	.91800	.04505
.160	2.010	-.00380	.04905	.07370	-.00210	.04910	-.00090	-.00030	.00900	13.49900	.04414
.160	4.080	.08210	.04930	.07780	.09540	.04272	-.00080	-.00050	.00900	.34900	.04426
.160	6.130	.18750	.05440	.08300	.19220	.03412	-.00090	-.00070	.00800	.49000	.04323
.160	8.190	.28850	.06280	.08680	.29450	.02109	-.00110	-.00090	.00700	.54100	.04279
.160	10.260	.38680	.07640	.09170	.39420	.00627	-.00160	-.00110	.00900	.56400	.04229
.160	12.330	.48480	.08480	.09520	.49390	-.01111	-.00230	-.00110	.01100	.57800	.04336
.160	14.390	.59440	.12280	.09790	.60630	-.02879	-.00240	-.00080	.01200	.59000	.04302
.160	16.470	.70830	.15895	.09880	.72430	-.04844	-.00270	-.00010	.01300	.60000	.04555
.160	18.560	.81420	.22300	.08970	.84290	-.04770	-.01080	-.00490	.02400	.61000	.04764
.160	20.630	.92170	.28315	.08610	.96230	-.09981	-.01210	-.00590	.02700	.61800	.05023
.160	22.700	1.02320	.35000	.08430	1.07900	-.07207	-.01190	-.00470	.02800	.62100	.05384
.160	24.770	1.11570	.43210	.07930	1.19420	-.07507	-.00710	-.00540	.02000	.62900	.05990
	GRADIENT	.04625	-.00163	.00157	.047[illegible]1	.00013	-.00000	-.00003	-.00019	.58117	-.00041

DATE 08 OCT 93 SUBLAYER SOURCE DATA 4AAL-PSD CODE4 (REVISED) 1 08 JUL 93 1

USER WATERWAYS EXPERIMENT STATION

REFERENCE DATA

SREF =	0.0119 SQ.FT.	HREF =	69.9970 INCHES
LREF =	19.8300 INCHES	MREF =	.0000 INCHES
BREF =	37.9990 INCHES	ZREF =	10.2500 INCHES
SCALE =	.0000 SCALE		

PARAMETRIC DATA

BETA =	.0000	DCPLAP =	-10.0000
ELEVON =	.0000	AILRON =	.0000
VTLINE =	.0000	RUDDER =	.0000
% CHORD =	99.0000	CANARD =	.0000

MACH NO. REF'D BAL = 1.50 GRADIENT INTERVAL = -9.0000 9.0000

MACH	ALPHA	CL	CDF	CLP	CN	CAF	CYN	CYL	CY	XCP/L	CAB
.1600	-4.1980	-.1000	.1000	-.1010	-.1000	.1000	-.1000	.1000	.1000	.1000	.1000
.1600	-2.0000	.1000	.1000	-.1000	.1000	.1000	-.1000	.1000	6.0000	.1000	.1000
.1600	.0000	.1000	.1000	-.1000	.1000	.1000	-.1000	.1000	.0000	.0000	.1000
.1600	2.0000	.1000	.1000	-.1000	.1000	.1000	-.1000	.1000	.6000	.0000	.1000
.1600	4.1980	.2000	.1000	-.1000	.2000	.1000	-.1000	.1000	.6000	.0000	.1000
.1600	5.2000	.3000	.0000	-.0000	.3000	.1000	-.1000	.1000	.6000	.0000	.1000
.1600	6.2000	.4000	.1000	-.0000	.4000	.1000	-.1000	.1000	.6000	.0000	.1000
.1600	10.2000	.5000	.1000	-.0000	.5000	.1000	-.1000	.1000	.6000	.0000	.1000
.1600	12.4000	.6000	.1000	-.0000	.6000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	14.4000	.7000	.1000	.0000	.7000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	16.4000	.8000	.1000	.0000	.8000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	18.4000	.9000	.2000	.0000	1.0000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	20.4000	1.0000	.3000	.0000	1.2000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	22.4000	1.1000	.4000	.0000	1.4000	-.0000	-.1000	.1000	.6000	.0000	.1000
.1600	24.4000	1.2000	.5000	.0000	1.6000	-.0000	-.1000	.1000	.6000	-.2000	-.1000
	GRADIENT	.0000	.0000	.0000	.0000	-.0000	-.1000	.1000	.0000	.0000	.0000

TABULATED SOURCE DATA REAL-PSB DATA

(WSPSBD) 1 30 JUL 93 1

REFERENCE DATA

PARAMETRIC DATA

SREF =	0.0010 SQ.FT.	WREF =	40.5976 INCHES	BETA =	.000	DELTAP =	[illegible]
LREF =	99.2969 INCHES	YREF =	.0000 INCHES	ELEVON =	10.000	AILRON =	.000
BREF =	99.9999 INCHES	ZREF =	10.2969 INCHES	VFLSHC =	.000	RUDDER =	.000
SCALE =	.0010 SCALE			SPOBRK =	99.000	CANARD =	.000

SUB-SPL DEV S REAL = 1.17 ORIGINAL INTERVAL = -9.000 9.00

MACH	ALPHA	CL	CDF	CDP	CM	CAF	CYB	CRL	CN	XCP/L	CAB
.[illegible]	-0.000	-.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.95300	.[illegible]
.900	-1.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	4.10800	.[illegible]
.900	.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.71800	.[illegible]
.900	2.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.67800	.[illegible]
.900	4.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.66900	.[illegible]
.900	6.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65800	.[illegible]
.900	8.000	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65200	.[illegible]
.900	10.000	.[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.64900	.[illegible]
.900	12.000	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.64800	.[illegible]
.900	14.000	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.64800	.[illegible]
.900	16.000	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.64800	.[illegible]
.900	18.000	1.[illegible]	.[illegible]	-.[illegible]	1.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65000	.[illegible]
.900	20.000	1.[illegible]	.[illegible]	-.[illegible]	1.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65100	.[illegible]
.900	22.000	1.[illegible]	.[illegible]	-.[illegible]	1.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65200	.[illegible]
.900	24.000	1.[illegible]	.[illegible]	-.[illegible]	1.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	.65200	.[illegible]
	[illegible]	.[illegible]	.[illegible]	.[illegible]	.[illegible]	-.[illegible]	-.[illegible]	.[illegible]	.[illegible]	-.15091	-.[illegible]

TABULATED SOURCE DATA NASA-FHS DATA

(REV 1.00) 30 JUL 79

PARAMETRIC DATA

REFERENCE DATA

SREF =	6.4119 SQ.FT.	XMRP =	49.9870 INCHES	BETA =	.0000
LREF =	10.2299 INCHES	YMRP =	.0000 INCHES	ELEVON =	10.0000
BREF =	37.9350 INCHES	ZMRP =	10.2700 INCHES	VTL INC =	.0000
SCALE =	.0050 SCALE			SREF =	99.0000

BCFLAP = -10.0000
AILRON = .0000
RUDDER = .0000
CANARD = .0000

RUN NO. 1007 0 MACH = 1.17 GRADIENT INTERVAL = -9.00 9.00

MACH	ALPHA	CL	CDF	CLP	CM	CAF	CYH	CBL	CY	XCP/L	CAB
.100	-4.000	-.08000	.05880	-.02650	-.08580	.05032	-.00140	.00080	.0000	.5490	.05434
.100	-1.000	.00000	.05480	-.02350	.00180	.05470	-.00140	.0000	.0000	9.9890	.05314
.100	.000	.00010	.05550	-.01970	.00980	.05543	-.00150	.0000	.0000	.7230	.05299
.100	2.110	.10250	.05880	-.01390	.19480	.05214	-.00170	.0000	.0000	.6790	.05143
.100	4.170	.20750	.06810	-.01100	.29100	.04913	-.00180	.0000	.0000	.6550	.04980
.100	6.230	.30140	.07890	-.00560	.38770	.03870	-.00190	.0000	.0000	.6500	.04821
.100	8.290	.47980	.09240	-.00070	.48830	.02225	-.00200	.0000	.0000	.6490	.04817
.100	10.340	.57780	.11210	.00280	.58830	.00660	-.00200	.0000	.0000	.6490	.04954
.100	12.430	.68000	.13790	.00480	.69370	-.01274	-.00200	.0000	.0000	.6490	.05114
.100	14.390	.78700	.17180	.00480	.81480	-.03107	-.00320	.0000	.0000	.6490	.05211
.100	16.360	.89080	.21360	.00350	.92340	-.04956	-.00350	.0000	.0000	.6490	.05333
.100	18.440	1.00810	.29990	.00200	1.04470	-.06790	-.01310	-.0150	.0000	.6490	.05504
.100	20.720	1.10010	.35010	-.00030	1.15510	-.05441	-.01480	-.0160	.0000	.6510	.05810
.100	22.790	1.19980	.44510	-.00110	1.27900	-.09290	-.00480	-.0150	.0000	.6520	.06597
.100	24.850	1.29010	.53180	-.01110	1.39420	-.09969	-.00780	-.0054	.0000	.6520	.07166
	GRADIENT	.09587	.00113	.00100	.09682	-.00464	-.00009	.00001	.0000	-.24479	-.00166

OA21 B17C7H15M4F5 W15TE23V7R6 X9 (RCP170) (09 JUL 73)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES
BREF =	37.9339 INCHES	ZMRP =	16.2000 INCHES
SCALE =	.0405 SCALE		

PARAMETRIC DATA

BETA =	.000	BDFLAP =	-10.000
ELEVON =	10.000	AILRON =	.000
VTLINC =	.000	RUDDER =	.000
SPDBRK =	55.000	CANARD =	.000

RUN NO. 170/ 5 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CM	CAF	CYM	CBL	CY	XCP/L	CAB
.100	-4.000	-.08300	.05790	-.03470	-.09700	.05112	.00100	.00070	.00900	.51000	.05349
.100	-2.010	.00080	.05490	-.02070	-.00100	.05407	.00100	.00070	.00900	-9.41000	.05274
.100	.000	.09840	.05490	-.02200	.09850	.05479	.00090	.00080	.00800	.73000	.05305
.100	2.130	.19300	.06010	-.01720	.19910	.05200	.00090	.00080	.00800	.66200	.05080
.100	4.100	.29140	.06730	-.01020	.29550	.04900	.00080	.00090	.00700	.65200	.05032
.100	6.240	.38830	.07770	-.00400	.39450	.03505	.00080	.00010	.00700	.65300	.04993
.100	8.310	.48740	.06200	.00330	.49570	.02137	.00050	-.00040	.00900	.64700	.04952
.100	10.370	.58880	.11290	.01080	.59770	.00534	.00020	-.00050	.01000	.64300	.04960
.100	12.440	.68840	.13800	.01750	.70210	-.01273	-.00010	-.00030	.01200	.64000	.05015
.100	14.500	.79740	.17320	.02080	.81540	-.03200	-.00080	-.00030	.01400	.64000	.05107
.100	16.560	.90720	.21030	.02560	.93200	-.04916	-.00070	.00030	.01600	.63900	.05053
.100	18.600	1.01850	.29080	.02120	1.05800	-.05066	-.01040	-.00430	.03000	.64200	.05325
.100	20.740	1.11560	.36120	.02190	1.17130	-.05740	-.01170	-.00740	.03400	.64200	.05533
.100	22.810	1.20890	.44000	.01880	1.28900	-.05622	-.00460	-.00270	.02300	.64400	.06110
.100	24.880	1.30220	.53500	.01930	1.40880	-.06100	-.00230	-.00730	.02200	.64400	.06592
	GRADIENT	.04660	.00116	.00293	.04764	-.00061	-.00002	-.00002	.00024	.50528	-.00041

OA21 B17C7H7 M4F5 W107E2SV7R6 X9 (RDP171) (09 JUL 73)

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 10.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = 55.000 CANARD = .000

RUN NO. 171/ 0 RN/L = 1.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.160	-4.050	-.09050	.05700	-.03490	-.09440	.05044	-.00120	.00080	.00300	.51300	.05405
.160	-2.010	.00310	.05500	-.02750	.00110	.05514	-.00130	.00090	.00300	9.18000	.05317
.160	.040	.09630	.05580	-.01960	.09630	.05573	-.00150	.00090	.00400	.72400	.05252
.160	2.110	.19450	.06020	-.01320	.19660	.05299	-.00150	.00100	.00400	.67400	.05144
.160	4.160	.29090	.06700	-.00370	.29500	.04577	-.00170	.00080	.00400	.65400	.05121
.160	6.220	.38920	.07900	.00490	.39550	.03636	-.00190	.00070	.00500	.64500	.04936
.160	8.290	.48810	.09350	.01330	.49650	.02217	-.00220	.00030	.00500	.63900	.04981
.160	10.350	.58860	.11420	.02090	.59950	.00657	-.00230	.00020	.00500	.63600	.04930
.160	12.450	.69270	.14090	.02830	.70680	-.01171	-.00290	.00070	.00500	.63500	.05117
.160	14.520	.80310	.17710	.03150	.82190	-.02994	-.00330	.00100	.00500	.63500	.05220
.160	16.590	.91710	.22110	.03370	.94200	-.04993	-.00380	.00200	.00700	.63600	.05500
.160	18.640	1.02880	.29670	.03420	1.06970	-.04778	-.01270	-.00261	.02400	.63800	.05550
.160	20.730	1.12690	.36750	.03550	1.18410	-.05526	-.01450	-.00500	.02800	.63800	.05887
.160	22.810	1.22700	.45690	.03180	1.30820	-.05471	-.00830	-.00050	.01600	.64000	.06521
.160	24.880	1.33450	.55000	.02550	1.44210	-.06268	-.00640	-.00330	.01500	.64300	.07042
	GRADIENT	.04646	.00123	.00373	.04744	-.00056	-.00006	.00001	.00015	-.40164	-.00038

[illegible] [illegible] [illegible] [

OA21 B17C7 M4F5 W107E23V7R6 X9 (ZDP173) (28 AUG 73)

REFERENCE DATA

SREF = 4.4116 SQ.FT. XMRP = 43.5874 INCHES
LREF = 19.2299 INCHES YMRP = .0000 INCHES
BREF = 37.9359 INCHES ZMRP = 16.2000 INCHES
SCALE = .0405 SCALE

PARAMETRIC DATA

BETA = .000 BDFLAP = -10.000
ELEVON = 5.000 AILRON = .000
VTLINC = .000 RUDDER = .000
SPDBRK = .000

RUN NO. 173/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.170	-.16730	.03000	-.00110	-.16900	.01776	-.00120	.00100	.00400	.64700	.03634
.260	-2.050	-.07060	.02470	-.00110	-.07150	.02219	-.00110	.00100	.00300	.64300	.03670
.260	.020	.02540	.02370	-.00120	.02540	.02370	-.00100	.00100	.00300	.66800	.03611
.260	2.130	.12280	.02560	-.00150	.12370	.02110	-.00090	.00080	.00200	.65400	.03577
.260	4.210	.21920	.03030	-.00150	.22080	.01414	-.00110	.00060	.00300	.65200	.03529
.260	6.320	.31700	.03930	-.00170	.31940	.00413	-.00130	.00040	.00300	.65100	.03410
.260	8.420	.41340	.05180	-.00170	.41650	-.00928	-.00140	.00020	.00400	.65100	.03382
.260	10.520	.51270	.06890	-.00130	.51670	-.02583	-.00160	.00000	.00500	.65000	.03473
.260	12.630	.61280	.09320	-.00170	.61840	-.04309	-.00190	.00030	.00600	.65000	.03554
.260	14.740	.72130	.12600	-.00440	.72960	-.06169	-.00220	.00050	.00600	.65200	.03670
.260	16.870	.83790	.16940	-.01110	.85100	-.08111	-.00230	.00110	.00600	.65400	.03846
.260	19.000	.93960	.24560	-.02200	.96840	-.07384	-.01240	-.00700	.02800	.65800	.04226
.260	21.120	1.03980	.31050	-.02720	1.08180	-.08508	-.01190	-.00710	.02600	.65900	.04530
.260	23.240	1.12600	.39070	-.03210	1.18880	-.08525	-.00690	-.00550	.01900	.65900	[illegible]
.260	25.350	1.19690	.46800	-.02800	1.28210	-.08952	-.00310	-.00520	.01300	.65700	[illegible]
	GRADIENT	.04615	.00007	-.00006	.04655	-.00040	.00002	-.00005	-.00014	.00100	[illegible]

OA21 B1?:? M4F5 W107E23V7R6 X9 (RDP174) (09 JUL 75)

REFERENCE DATA

SREF =	4.4119 SQ.FT.	XMRP =	43.5974 INCHES		
LREF =	19.2299 INCHES	YMRP =	.0000 INCHES		
BREF =	37.9359 INCHES	ZMRP =	18.2000 INCHES		
SCALE =	.0405 SCALE				

PARAMETRIC DATA

BETA =	.000	BOFLAP =	-18.000
ELEVON =	-.500	AILRON =	.000
VTI.INC =	.000	RUDDER =	.000
SPDBRK =	.000		

RUN NO. 174/ 0 RN/L = 1.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CL	CDF	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.260	-4.320	-.36930	.04490	.06990	-.37160	.01689	-.00100	.00140	.00400	.73400	.03118
.260	-2.220	-.27200	.03360	.06870	-.27310	.02308	-.00110	.00130	.00400	.76300	.03194
.260	-.130	-.17260	.02670	.06820	-.17270	.02632	-.00110	.00110	.00400	.83700	.03117
.260	1.970	-.07480	.02200	.06840	-.07400	.02460	-.00100	.00110	.00300	1.08900	.03136
.260	4.050	.01970	.02100	.06886	.02120	.01957	-.00090	.00120	.00300	-.89100	.03111
.260	6.210	.11620	.02280	.06950	.11800	.01009	-.00090	.00150	.00300	.37000	.03029
.260	8.270	.21350	.02880	.09060	.21550	-.00222	-.00090	.00080	.00300	.49500	.03047
.260	10.370	.31210	.04000	.09110	.31420	-.01681	-.00110	.00060	.00400	.54300	.03057
.260	12.470	.41390	.05740	.09100	.41650	-.03335	-.00150	.00070	.00400	.56900	.03142
.260	14.610	.52690	.08350	.08820	.53090	-.05213	-.00180	.00110	.00500	.58800	.03304
.260	16.730	.64050	.11890	.08380	.64760	-.07145	-.00190	.00060	.00600	.60200	.03458
.260	18.830	.74910	.18500	.07010	.76870	-.08675	-.00990	-.00300	.02100	.61600	.03743
.260	20.950	.85500	.24170	.06490	.88490	-.08001	-.01010	-.00430	.02200	.62200	.04067
.260	23.090	.95300	.30670	.06080	.99750	-.09171	-.00960	-.00470	.02400	.62700	.04342
.260	25.210	1.04100	.38440	.05610	1.10550	-.09573	-.00530	-.00510	.01800	.63100	.04739
	GRADIENT	.04659	-.00284	-.00012	.04705	.00033	.00001	-.00003	-.00014	-.14009	-.00003